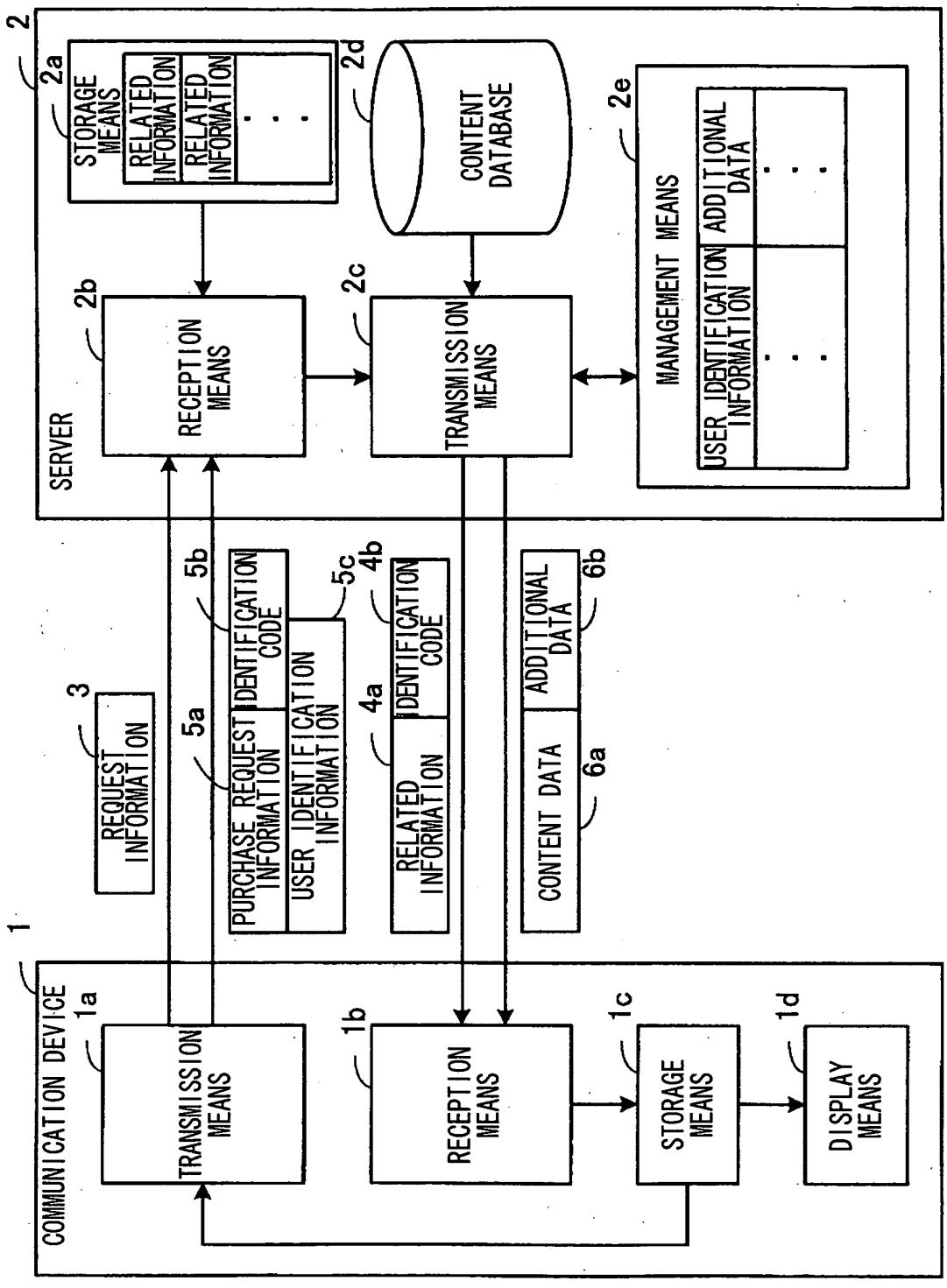
2
SERVER
2a
STORAGE MEANS
RELATED INFORMATION
RELATED INFORMATION
2d
CONTENT DATABASE
2e
MANAGEMENT MEANS
USER IDENTIFICATION INFORMATION
ADDITIONAL DATA
2b
RECEPTION MEANS
2c
TRANSMISSION MEANS
3
REQUEST INFORMATION
5a
PURCHASE REQUEST INFORMATION
5b
IDENTIFICATION CODE
5c
USER IDENTIFICATION INFORMATION
4b
IDENTIFICATION CODE
4a
RELATED INFORMATION
6b
ADDITIONAL DATA
6a
CONTENT DATA
1
COMMUNICATION DEVICE
1a
TRANSMISSION MEANS
1b
RECEPTION MEANS
1c
STORAGE MEANS
1d
DISPLAY MEANS

FIG. 1

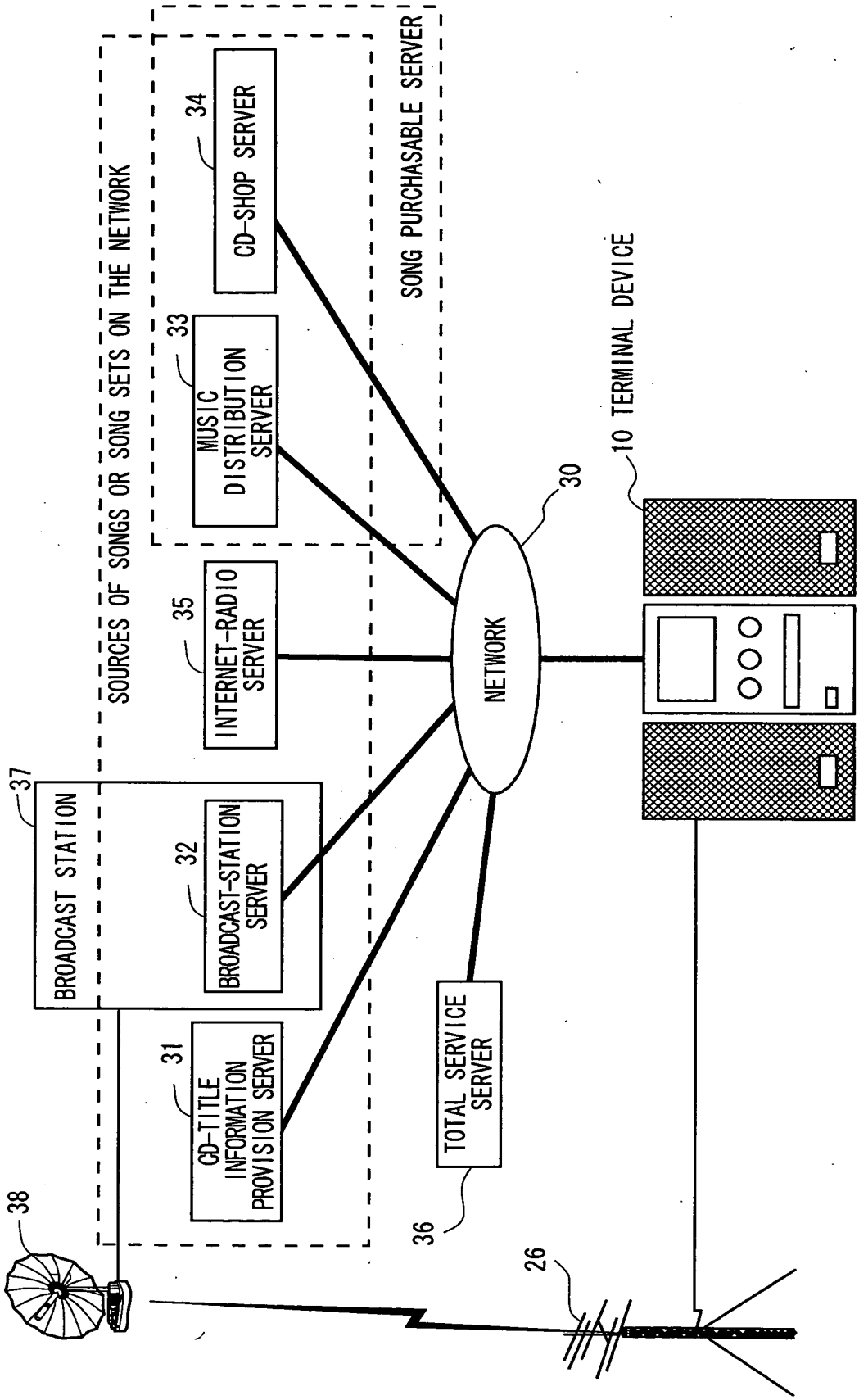
SOURCES OF SONGS OR SONG SETS ON THE NETWORK
SONG PURCHASABLE SERVER
CD-SHOP SERVER
34
MUSIC DISTRIBUTION SERVER
33
INTERNET-RADIO SERVER
35
BROADCAST STATION
37
BROADCAST-STATION SERVER
32
CD-TITLE INFORMATION PROVISION SERVER
31
TOTAL SERVICE SERVER
36
NETWORK
30
10 TERMINAL DEVICE
38
26

FIG. 2

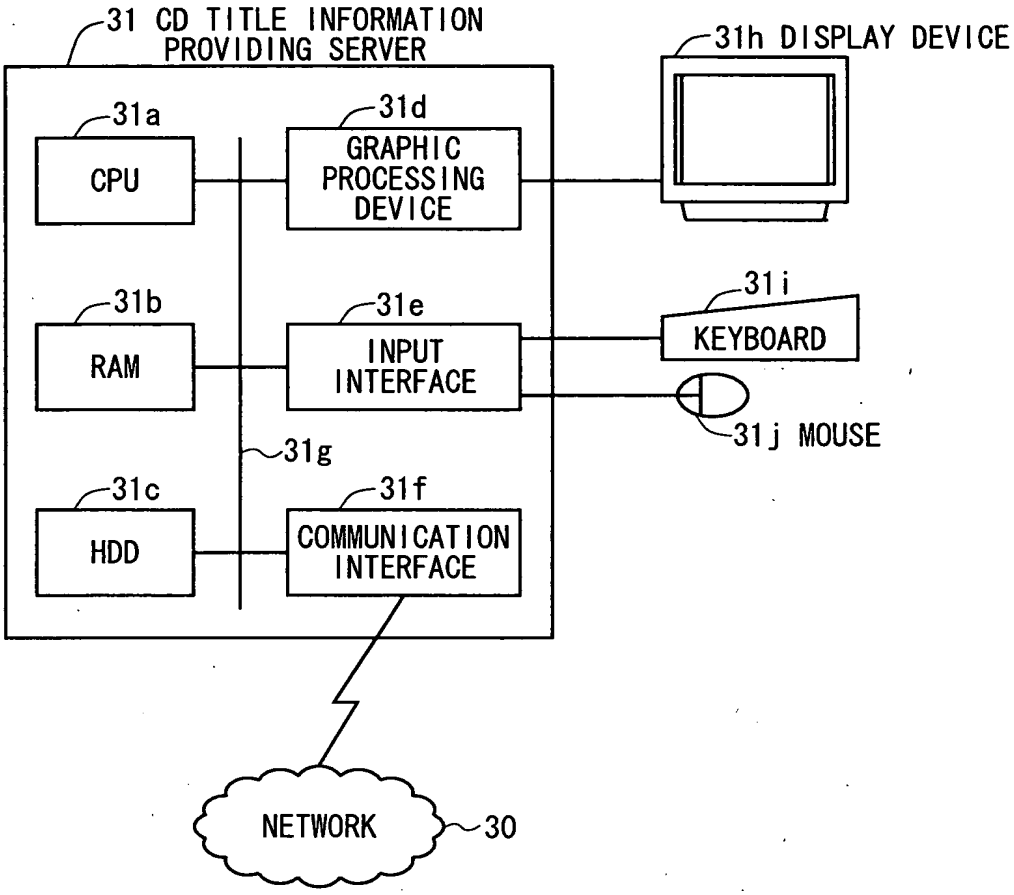
31 CD TITLE INFORMATION PROVIDING SERVER
31a
CPU
31d
GRAPHIC PROCESSING DEVICE
31h DISPLAY DEVICE
31b
RAM
31e
INPUT INTERFACE
31i
KEYBOARD
31j MOUSE
31g
31c
HDD
31f
COMMUNICATION INTERFACE
NETWORK
30

FIG. 3

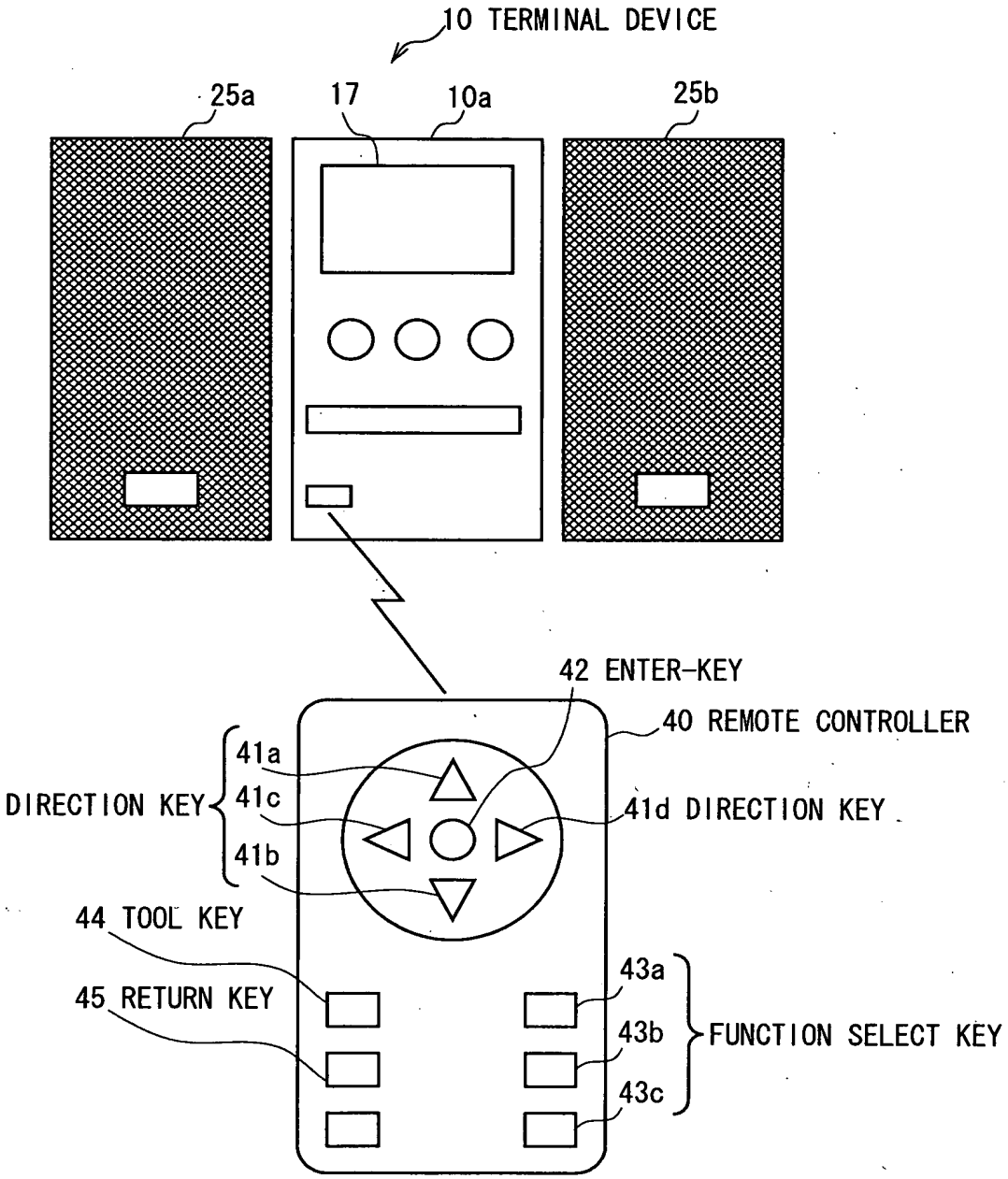
10 TERMINAL DEVICE
25a
17
10a
25b
42 ENTER-KEY
40 REMOTE CONTROLLER
41a
DIRECTION KEY
41c
41b
41d DIRECTION KEY
44 TOOL KEY
45 RETURN KEY
43a
43b
43c
FUNCTION SELECT KEY

FIG. 4

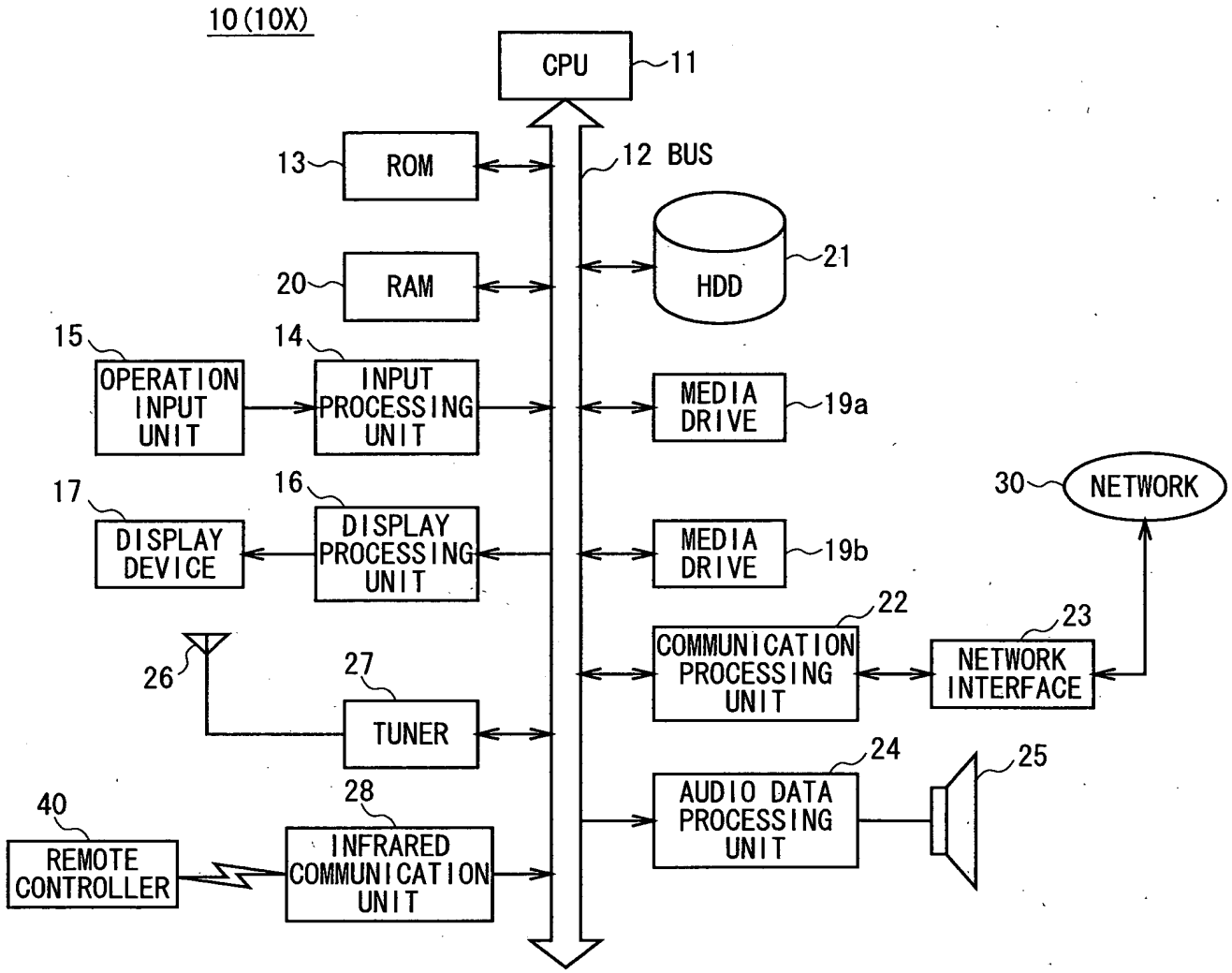
10(10X)
CPU
11
ROM
13
12 BUS
HDD
21
RAM
20
15
OPERATION INPUT UNIT
14
INPUT PROCESSING UNIT
MEDIA DRIVE
19a
30
NETWORK
17
DISPLAY DEVICE
16
DISPLAY PROCESSING UNIT
MEDIA DRIVE
19b
22
23
COMMUNICATION PROCESSING UNIT
NETWORK INTERFACE
26
27
TUNER
24
25
AUDIO DATA PROCESSING UNIT
40
28
REMOTE CONTROLLER
INFRARED COMMUNICATION UNIT

FIG. 5

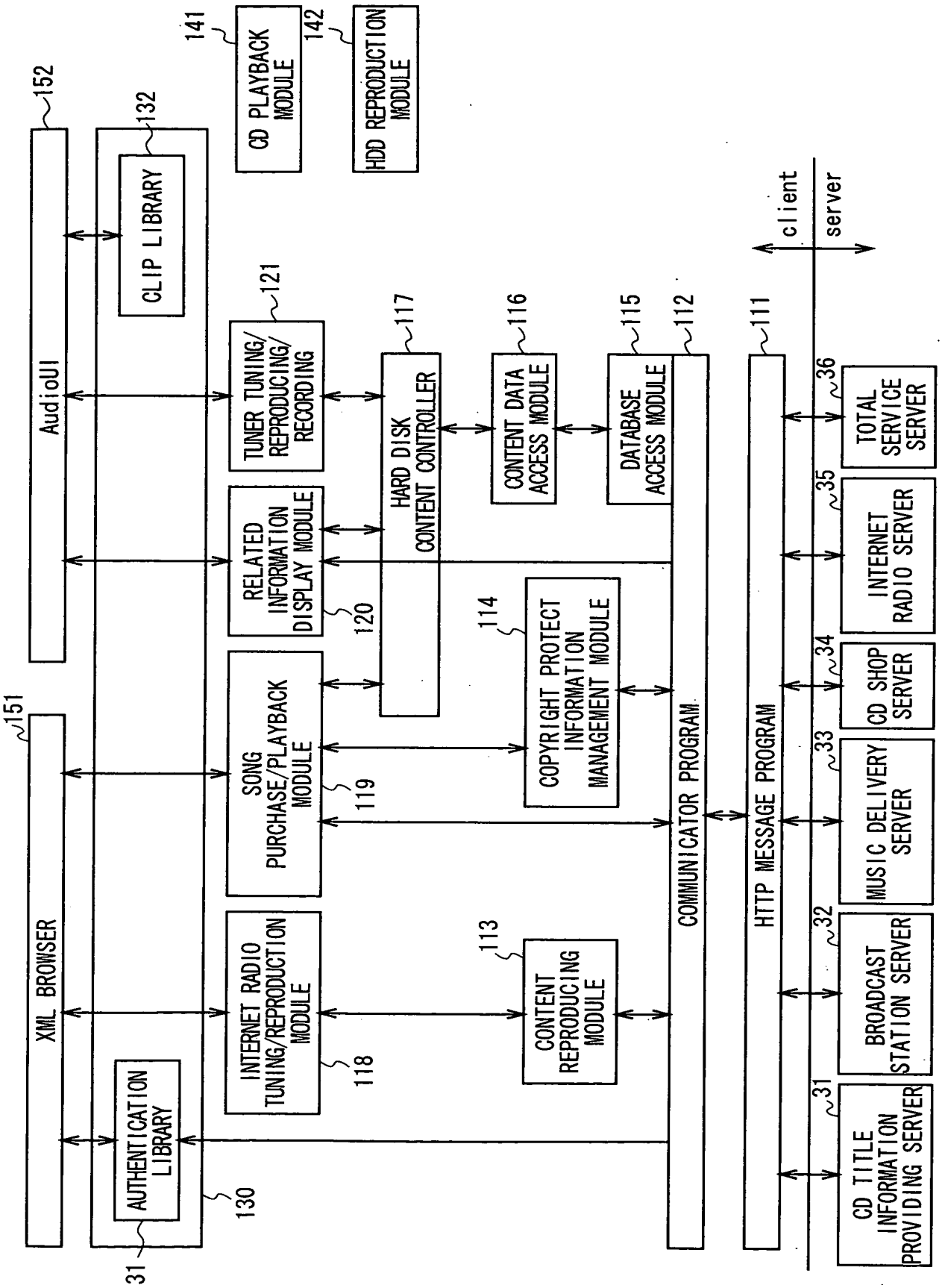
client
server
XML BROWSER
AudioUI
AUTHENTICATION LIBRARY
CLIP LIBRARY
INTERNET RADIO TUNING/REPRODUCTION MODULE
SONG PURCHASE/PLAYBACK MODULE
RELATED INFORMATION DISPLAY MODULE
TUNER TUNING/ REPRODUCING/ RECORDING
CD PLAYBACK MODULE
HDD REPRODUCTION MODULE
CONTENT REPRODUCING MODULE
COPYRIGHT PROTECT INFORMATION MANAGEMENT MODULE
HARD DISK CONTENT CONTROLLER
CONTENT DATA ACCESS MODULE
DATABASE ACCESS MODULE
COMMUNICATOR PROGRAM
HTTP MESSAGE PROGRAM
CD TITLE INFORMATION PROVIDING SERVER
BROADCAST STATION SERVER
MUSIC DELIVERY SERVER
CD SHOP SERVER
INTERNET RADIO SERVER
TOTAL SERVICE SERVER
130
131
151
152
132
141
142
121
120
119
118
113
114
117
116
115
112
111
31
32
33
34
35
36

FIG. 6

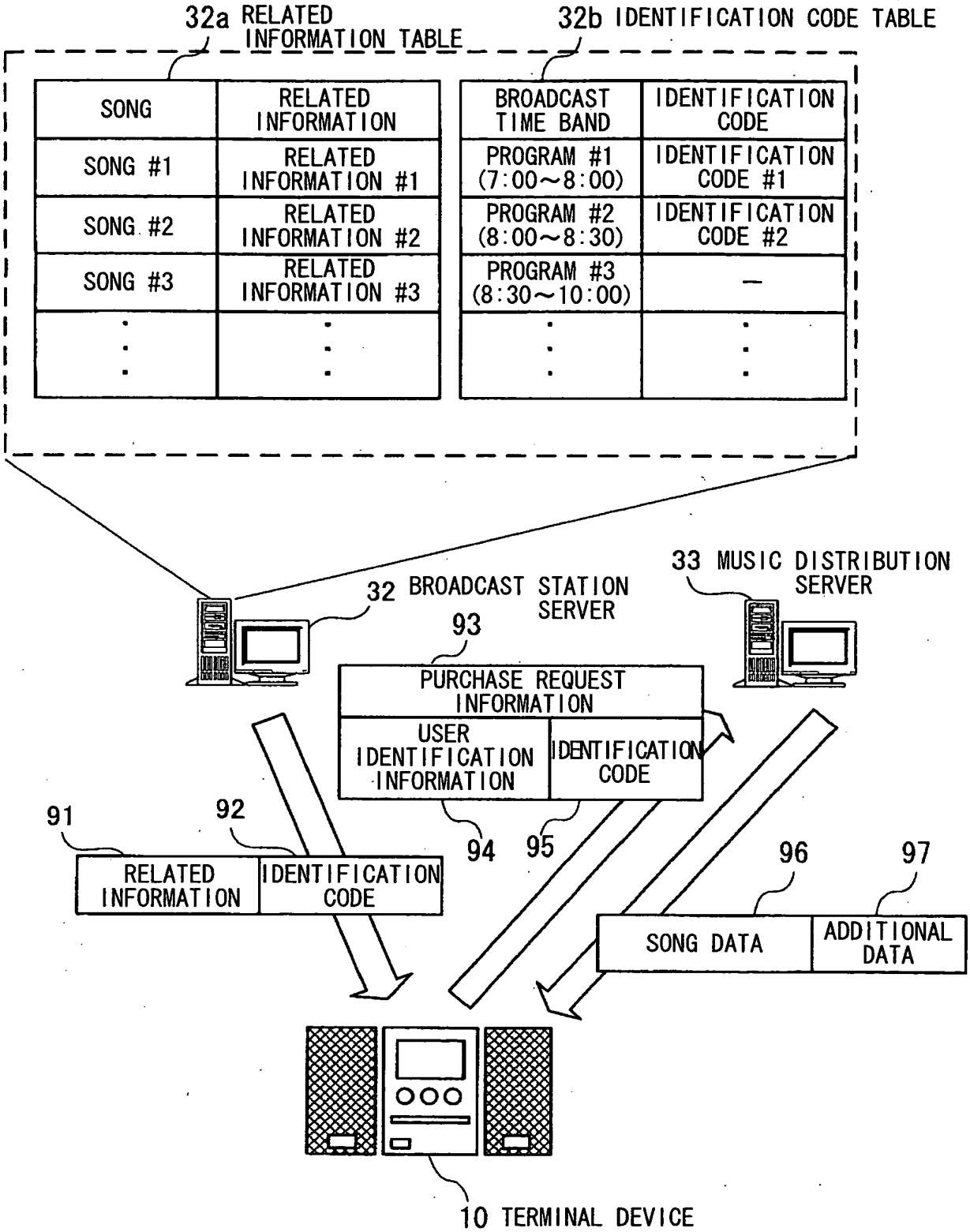
32a RELATED INFORMATION TABLE
32b IDENTIFICATION CODE TABLE
SONG
RELATED INFORMATION
SONG #1
RELATED INFORMATION #1
SONG #2
RELATED INFORMATION #2
SONG #3
RELATED INFORMATION #3
BROADCAST TIME BAND
IDENTIFICATION CODE
PROGRAM #1 (7:00~8:00)
IDENTIFICATION CODE #1
PROGRAM #2 (8:00~8:30)
IDENTIFICATION CODE #2
PROGRAM #3 (8:30~10:00)
—
32 BROADCAST STATION SERVER
33 MUSIC DISTRIBUTION SERVER
93
PURCHASE REQUEST INFORMATION
USER IDENTIFICATION INFORMATION
IDENTIFICATION CODE
91
92
94
95
96
97
RELATED INFORMATION
IDENTIFICATION CODE
SONG DATA
ADDITIONAL DATA
10 TERMINAL DEVICE

FIG. 7

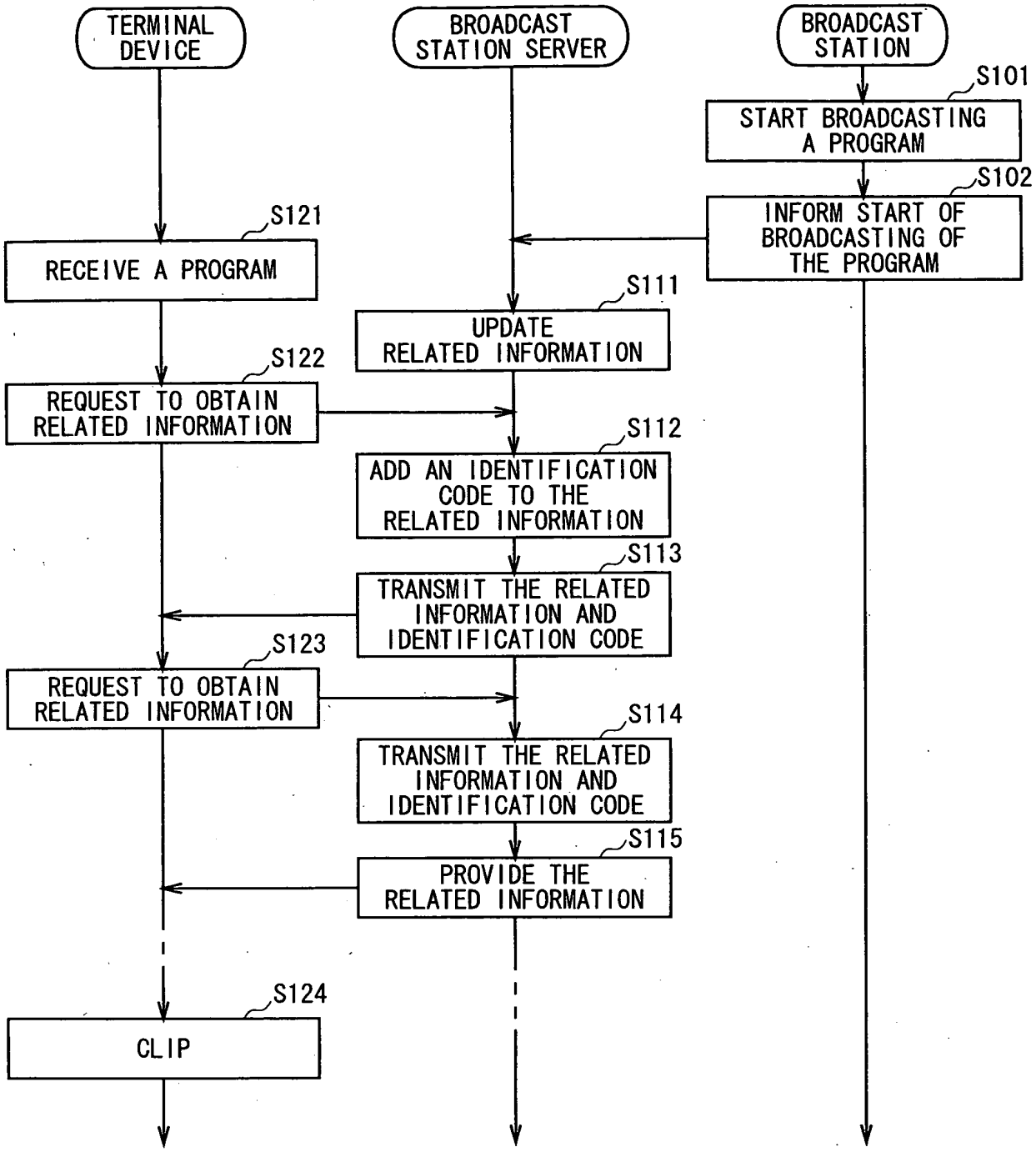
TERMINAL DEVICE
BROADCAST STATION SERVER
BROADCAST STATION
S101
START BROADCASTING A PROGRAM
S102
INFORM START OF BROADCASTING OF THE PROGRAM
S121
RECEIVE A PROGRAM
S111
UPDATE RELATED INFORMATION
S122
REQUEST TO OBTAIN RELATED INFORMATION
S112
ADD AN IDENTIFICATION CODE TO THE RELATED INFORMATION
S113
TRANSMIT THE RELATED INFORMATION AND IDENTIFICATION CODE
S123
REQUEST TO OBTAIN RELATED INFORMATION
S114
TRANSMIT THE RELATED INFORMATION AND IDENTIFICATION CODE
S115
PROVIDE THE RELATED INFORMATION
S124
CLIP

FIG. 8

50 RELATED INFORMATION

ITEM	CONTENTS
SONG TITLE	RAINY, AFTER FAIR
ARTIST NAME	FALCONS
CLIP TIME	2003/3/8 19:20
CD NUMBER	No. 01234567
CLIP LOCATION	MD
⋮	⋮

FIG. 9

70 IDENTIFICATION CODE

ISSUER	FM SHINAGAWA
PURPOSE	DISCOUNT OF A CD
AVAILABLE PARTNER	CD SHOP A
EXPIRATION LIMIT	2003. 12. 31
CODE ID	A03281

FIG. 10

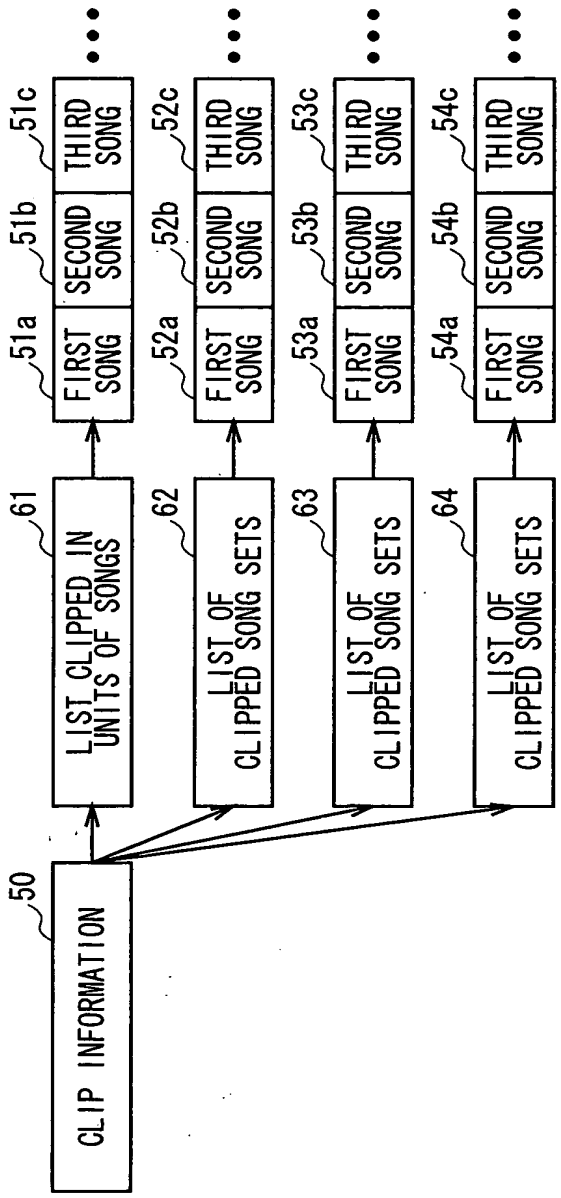
50
CLIP INFORMATION
61
LIST CLIPPED IN UNITS OF SONGS
62
LIST OF CLIPPED SONG SETS
63
LIST OF CLIPPED SONG SETS
64
LIST OF CLIPPED SONG SETS
51a
FIRST SONG
51b
SECOND SONG
51c
THIRD SONG
52a
FIRST SONG
52b
SECOND SONG
52c
THIRD SONG
53a
FIRST SONG
53b
SECOND SONG
53c
THIRD SONG
54a
FIRST SONG
54b
SECOND SONG
54c
THIRD SONG

FIG. 11

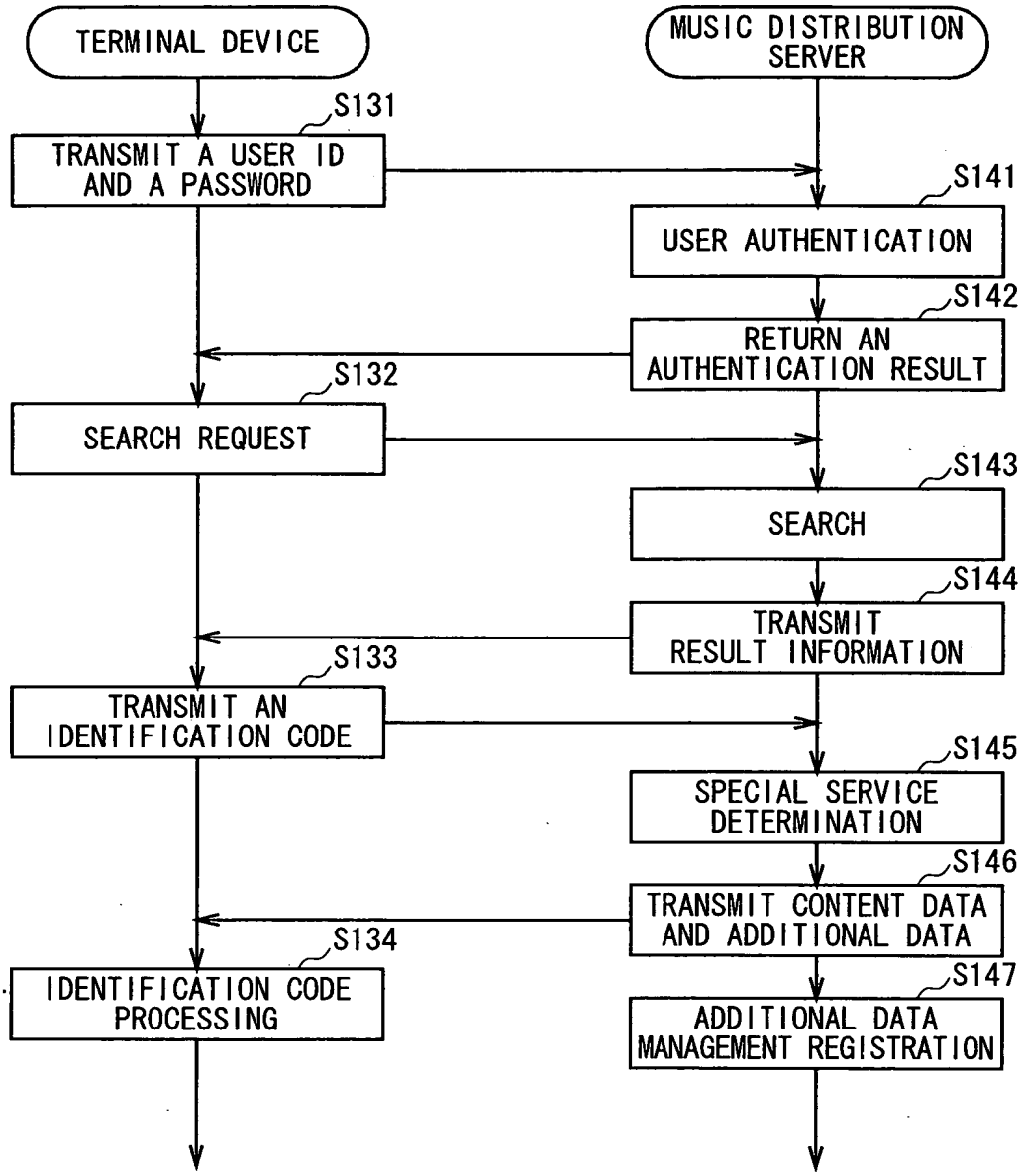
TERMINAL DEVICE
MUSIC DISTRIBUTION SERVER
S131
TRANSMIT A USER ID AND A PASSWORD
S141
USER AUTHENTICATION
S142
RETURN AN AUTHENTICATION RESULT
S132
SEARCH REQUEST
S143
SEARCH
S144
TRANSMIT RESULT INFORMATION
S133
TRANSMIT AN IDENTIFICATION CODE
S145
SPECIAL SERVICE DETERMINATION
S146
TRANSMIT CONTENT DATA AND ADDITIONAL DATA
S134
IDENTIFICATION CODE PROCESSING
S147
ADDITIONAL DATA MANAGEMENT REGISTRATION

FIG. 12

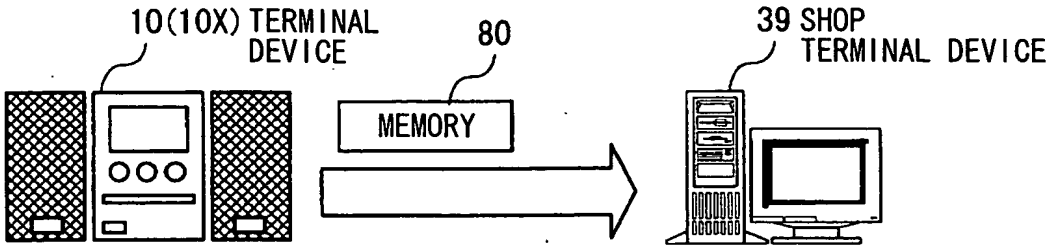
10(10X) TERMINAL DEVICE
80
MEMORY
39 SHOP TERMINAL DEVICE

FIG. 13

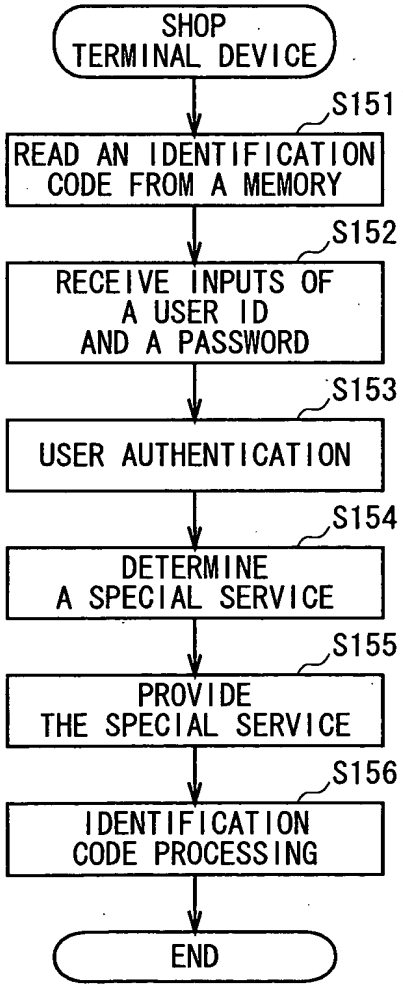
SHOP TERMINAL DEVICE
S151
READ AN IDENTIFICATION CODE FROM A MEMORY
S152
RECEIVE INPUTS OF A USER ID AND A PASSWORD
S153
USER AUTHENTICATION
S154
DETERMINE A SPECIAL SERVICE
S155
PROVIDE THE SPECIAL SERVICE
S156
IDENTIFICATION CODE PROCESSING
END

FIG. 14

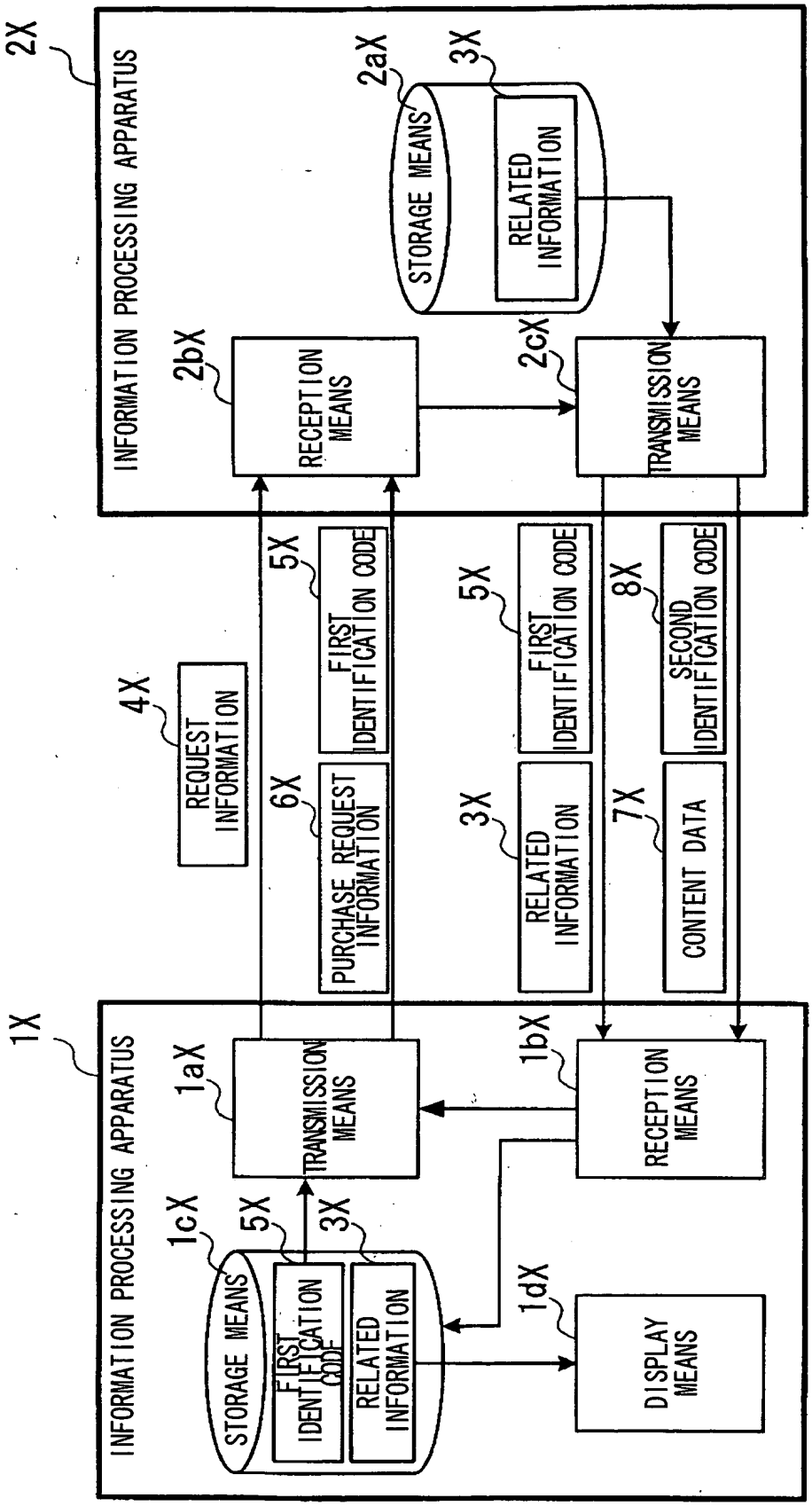
2X
INFORMATION PROCESSING APPARATUS
2aX
3X
STORAGE MEANS
RELATED INFORMATION
2bX
RECEPTION MEANS
2cX
TRANSMISSION MEANS
5X
FIRST IDENTIFICATION CODE
4X
REQUEST INFORMATION
6X
PURCHASE REQUEST INFORMATION
5X
FIRST IDENTIFICATION CODE
8X
SECOND IDENTIFICATION CODE
3X
RELATED INFORMATION
7X
CONTENT DATA
1X
INFORMATION PROCESSING APPARATUS
1aX
TRANSMISSION MEANS
1bX
RECEPTION MEANS
1cX
5X
3X
STORAGE MEANS
FIRST IDENTIFICATION CODE
RELATED INFORMATION
1dX
DISPLAY MEANS

FIG. 15

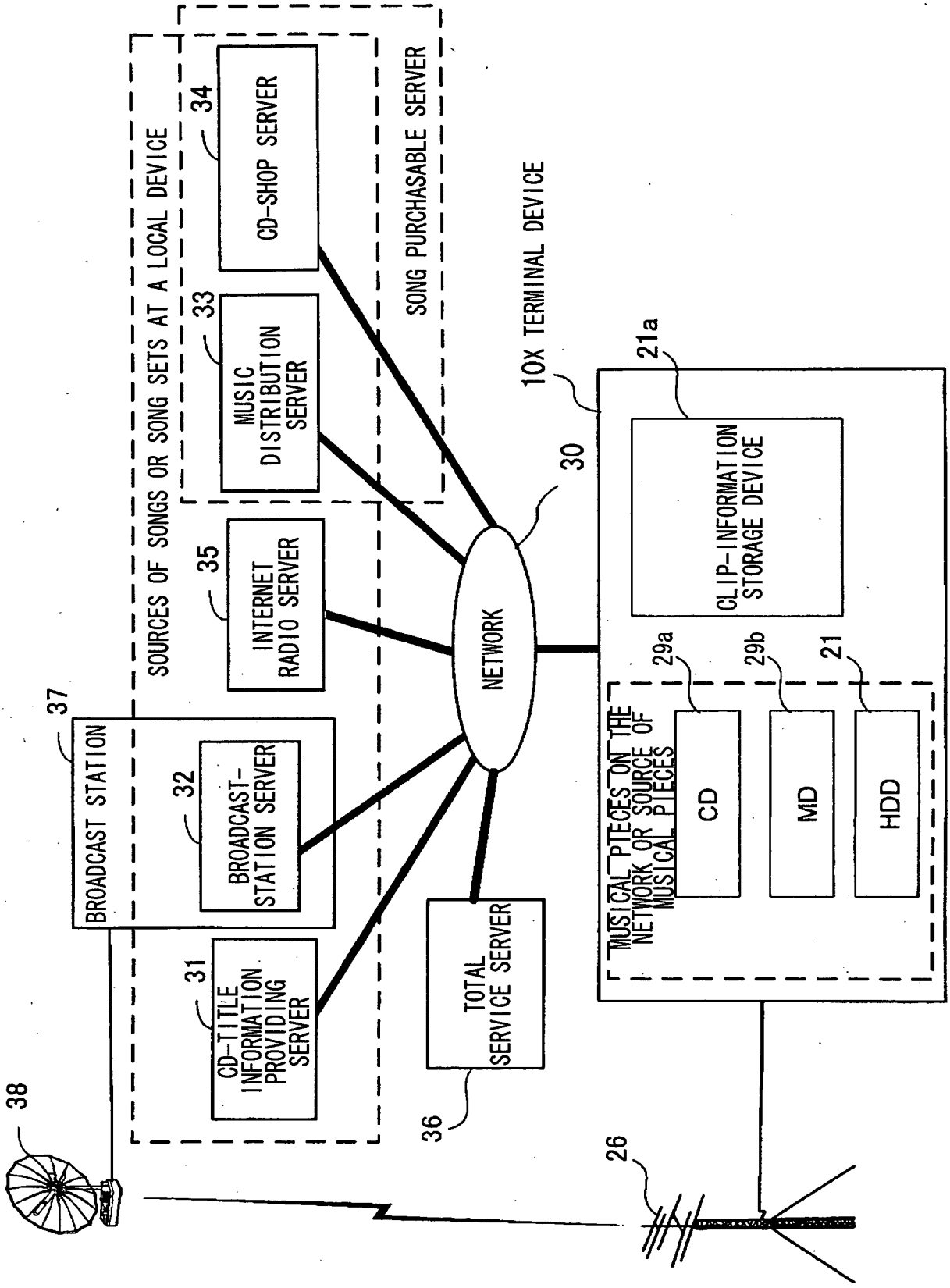
SOURCES OF SONGS OR SONG SETS AT A LOCAL DEVICE
SONG PURCHASABLE SERVER
CD-SHOP SERVER
34
MUSIC DISTRIBUTION SERVER
33
INTERNET RADIO SERVER
35
BROADCAST STATION
37
BROADCAST-STATION SERVER
32
CD-TITLE INFORMATION PROVIDING SERVER
31
TOTAL SERVICE SERVER
36
NETWORK
30
10X TERMINAL DEVICE
21a
CLIP-INFORMATION STORAGE DEVICE
MUSICAL PIECES ON THE NETWORK OR SOURCE OF MUSICAL PIECES
29a
29b
21
CD
MD
HDD
38
26

FIG. 16

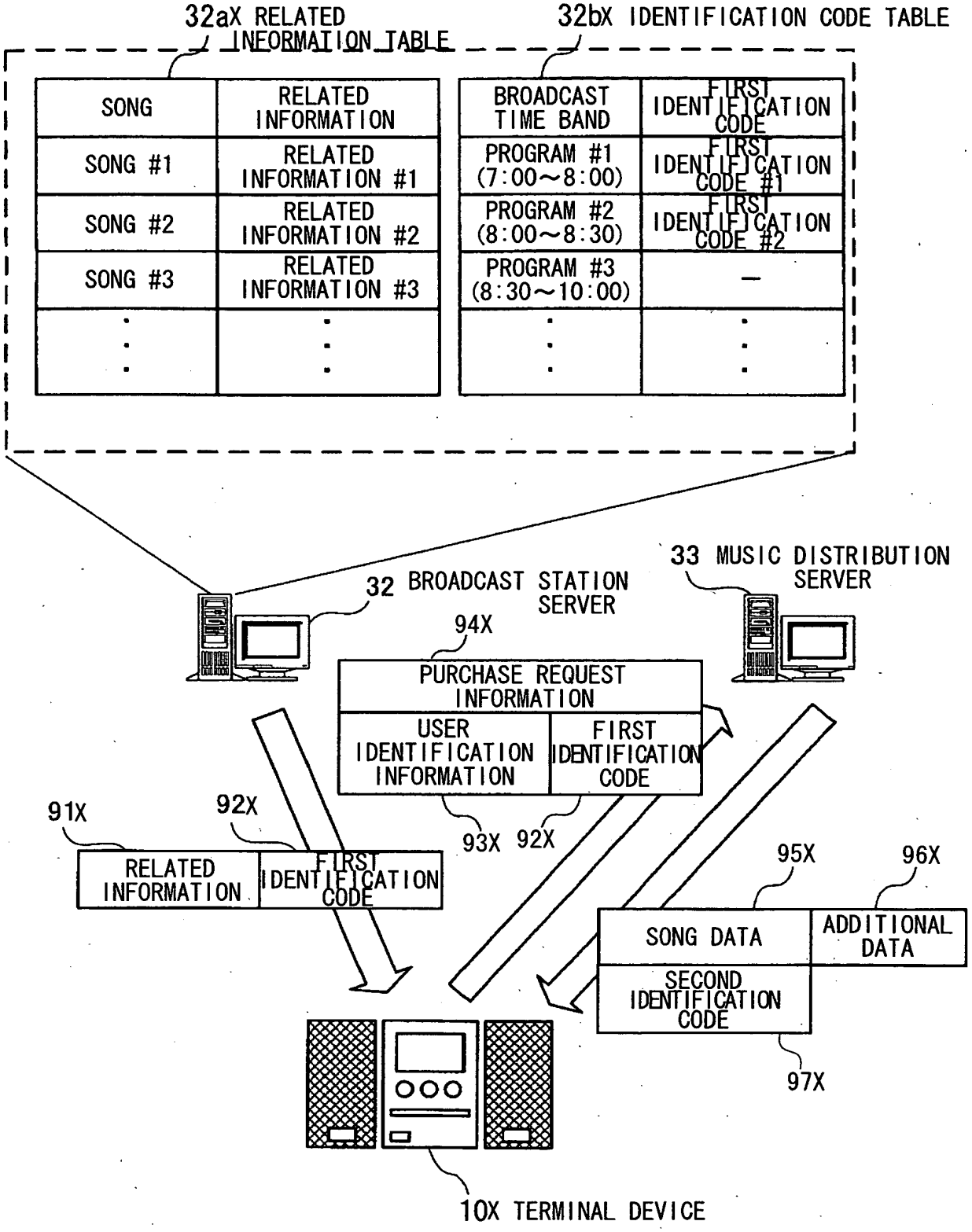
32aX RELATED INFORMATION TABLE
32bX IDENTIFICATION CODE TABLE
SONG
RELATED INFORMATION
SONG #1
RELATED INFORMATION #1
SONG #2
RELATED INFORMATION #2
SONG #3
RELATED INFORMATION #3
BROADCAST TIME BAND
FIRST IDENTIFICATION CODE
PROGRAM #1 (7:00~8:00)
FIRST IDENTIFICATION CODE #1
PROGRAM #2 (8:00~8:30)
FIRST IDENTIFICATION CODE #2
PROGRAM #3 (8:30~10:00)
—
32 BROADCAST STATION SERVER
33 MUSIC DISTRIBUTION SERVER
94X
PURCHASE REQUEST INFORMATION
USER IDENTIFICATION INFORMATION
FIRST IDENTIFICATION CODE
93X
92X
91X
92X
RELATED INFORMATION
FIRST IDENTIFICATION CODE
95X
96X
SONG DATA
ADDITIONAL DATA
SECOND IDENTIFICATION CODE
97X
10X TERMINAL DEVICE

FIG. 17

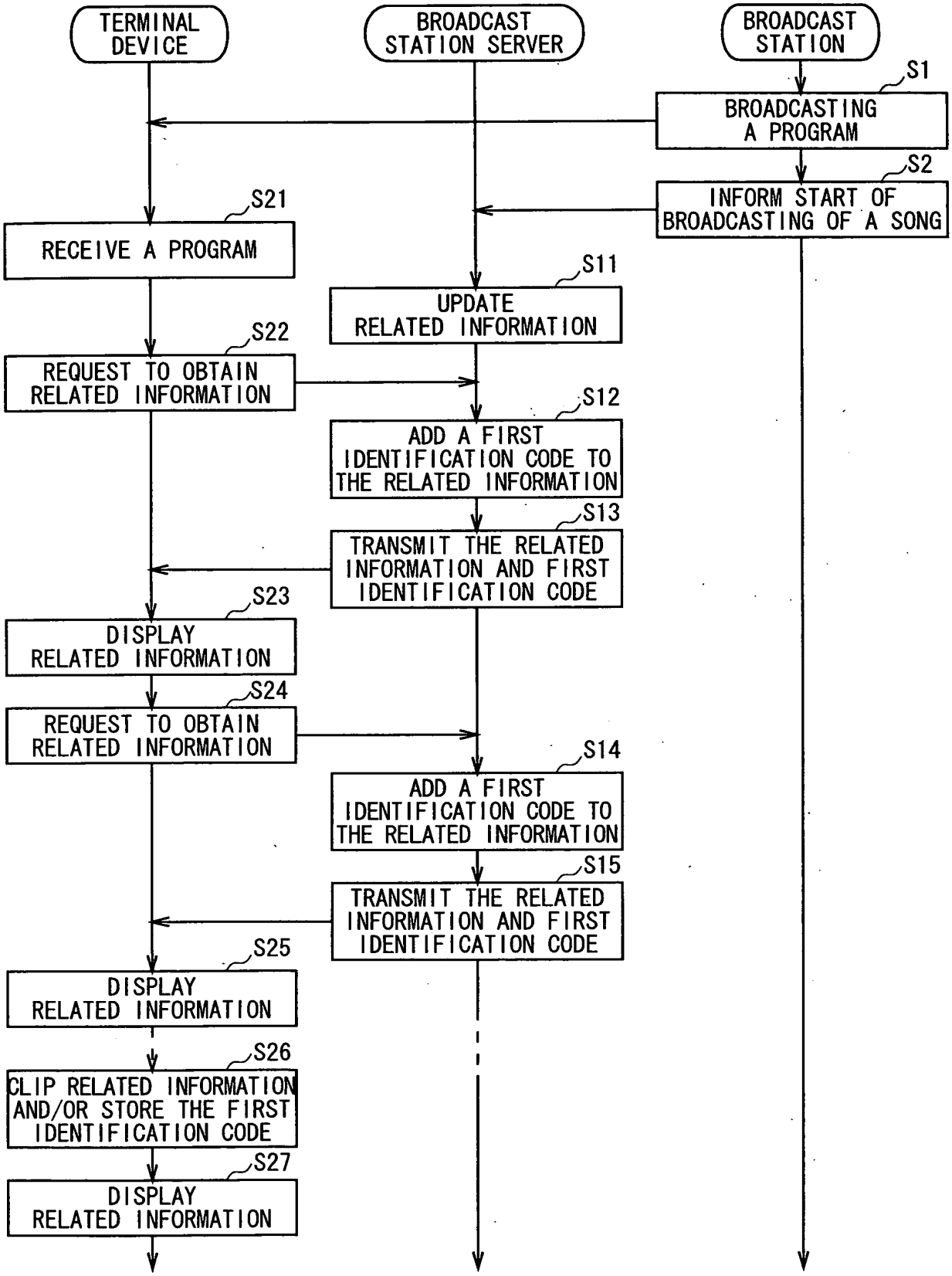
TERMINAL DEVICE
BROADCAST STATION SERVER
BROADCAST STATION
S1
BROADCASTING A PROGRAM
S2
INFORM START OF BROADCASTING OF A SONG
S21
RECEIVE A PROGRAM
S11
UPDATE RELATED INFORMATION
S22
REQUEST TO OBTAIN RELATED INFORMATION
S12
ADD A FIRST IDENTIFICATION CODE TO THE RELATED INFORMATION
S13
TRANSMIT THE RELATED INFORMATION AND FIRST IDENTIFICATION CODE
S23
DISPLAY RELATED INFORMATION
S24
REQUEST TO OBTAIN RELATED INFORMATION
S14
ADD A FIRST IDENTIFICATION CODE TO THE RELATED INFORMATION
S15
TRANSMIT THE RELATED INFORMATION AND FIRST IDENTIFICATION CODE
S25
DISPLAY RELATED INFORMATION
S26
CLIP RELATED INFORMATION AND/OR STORE THE FIRST IDENTIFICATION CODE
S27
DISPLAY RELATED INFORMATION

FIG. 18

60X FIRST IDENTIFICATION CODE

60aX	ISSUER	FM SHINAGAWA
60bX	PURPOSE	BONUS TRACK A
60cX	AVAILABLE PARTNER	MUSIC DISTRIBUTION SITE B
60dX	EXPIRATION LIMIT	2003. 12. 31
60eX	CODE ID	A03281

FIG. 19

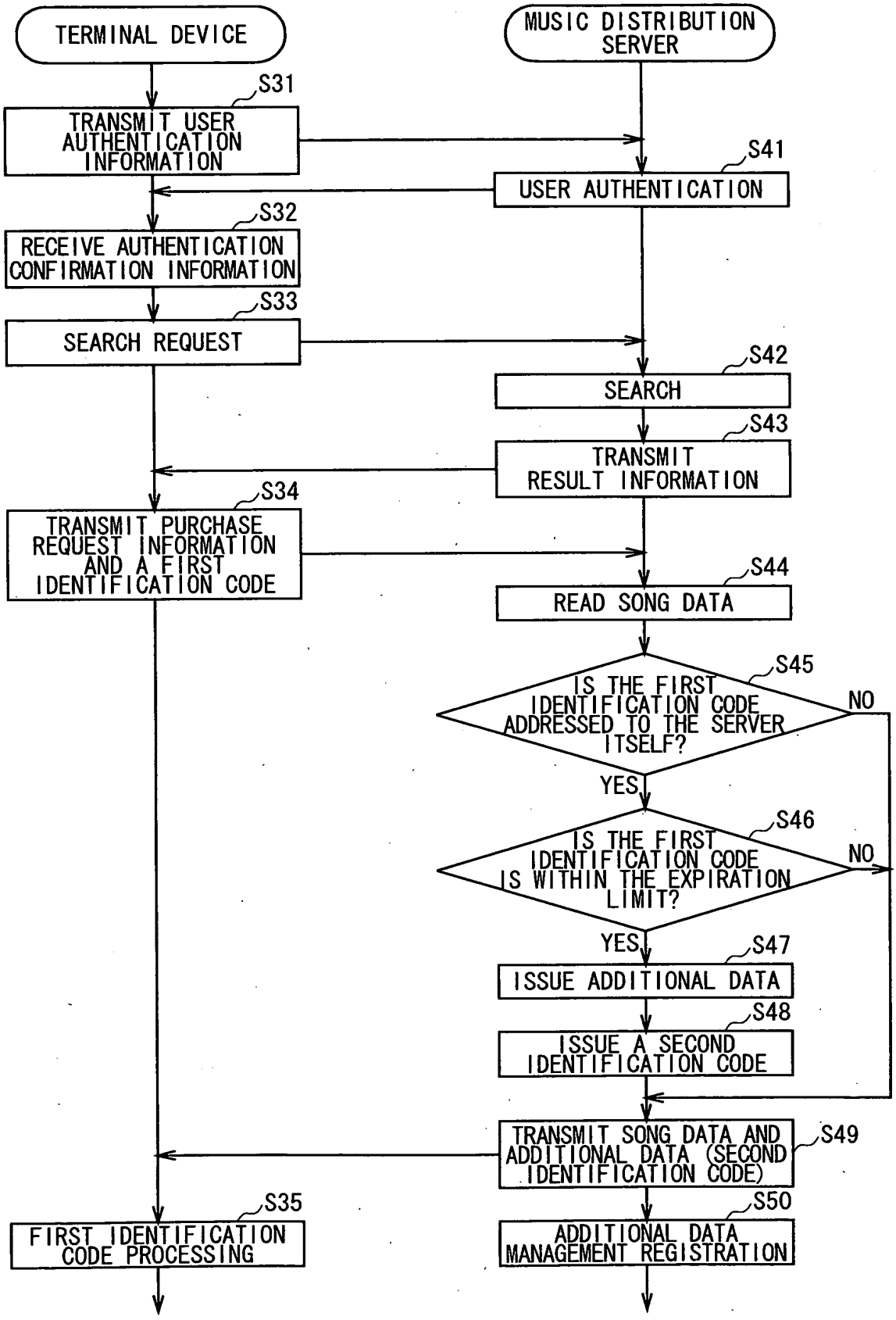
TERMINAL DEVICE
MUSIC DISTRIBUTION SERVER
S31
TRANSMIT USER AUTHENTICATION INFORMATION
S41
USER AUTHENTICATION
S32
RECEIVE AUTHENTICATION CONFIRMATION INFORMATION
S33
SEARCH REQUEST
S42
SEARCH
S43
TRANSMIT RESULT INFORMATION
S34
TRANSMIT PURCHASE REQUEST INFORMATION AND A FIRST IDENTIFICATION CODE
S44
READ SONG DATA
S45
IS THE FIRST IDENTIFICATION CODE ADDRESSED TO THE SERVER ITSELF?
NO
YES
S46
IS THE FIRST IDENTIFICATION CODE IS WITHIN THE EXPIRATION LIMIT?
NO
YES
S47
ISSUE ADDITIONAL DATA
S48
ISSUE A SECOND IDENTIFICATION CODE
S49
TRANSMIT SONG DATA AND ADDITIONAL DATA (SECOND IDENTIFICATION CODE)
S35
FIRST IDENTIFICATION CODE PROCESSING
S50
ADDITIONAL DATA MANAGEMENT REGISTRATION

FIG. 20

70X SECOND IDENTIFICATION CODE

70aX	ISSUER	MUSIC DISTRIBUTION SITE B
70bX	PURPOSE	DISCOUNT OF A PARTICULAR CD
70cX	AVAILABLE PARTNER	CD SHOP A
70dX	EXPIRATION LIMIT	2003.12.31
70eX	CODE ID	B49382

FIG. 21

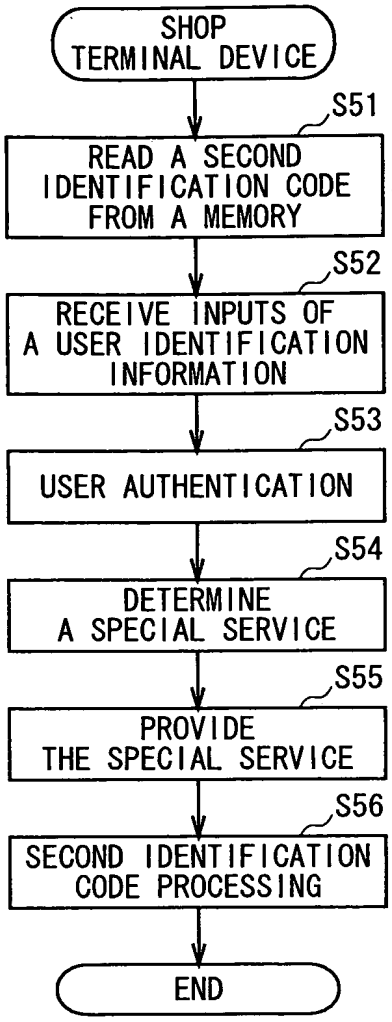
SHOP TERMINAL DEVICE
S51
READ A SECOND IDENTIFICATION CODE FROM A MEMORY
S52
RECEIVE INPUTS OF A USER IDENTIFICATION INFORMATION
S53
USER AUTHENTICATION
S54
DETERMINE A SPECIAL SERVICE
S55
PROVIDE THE SPECIAL SERVICE
S56
SECOND IDENTIFICATION CODE PROCESSING
END

FIG. 22

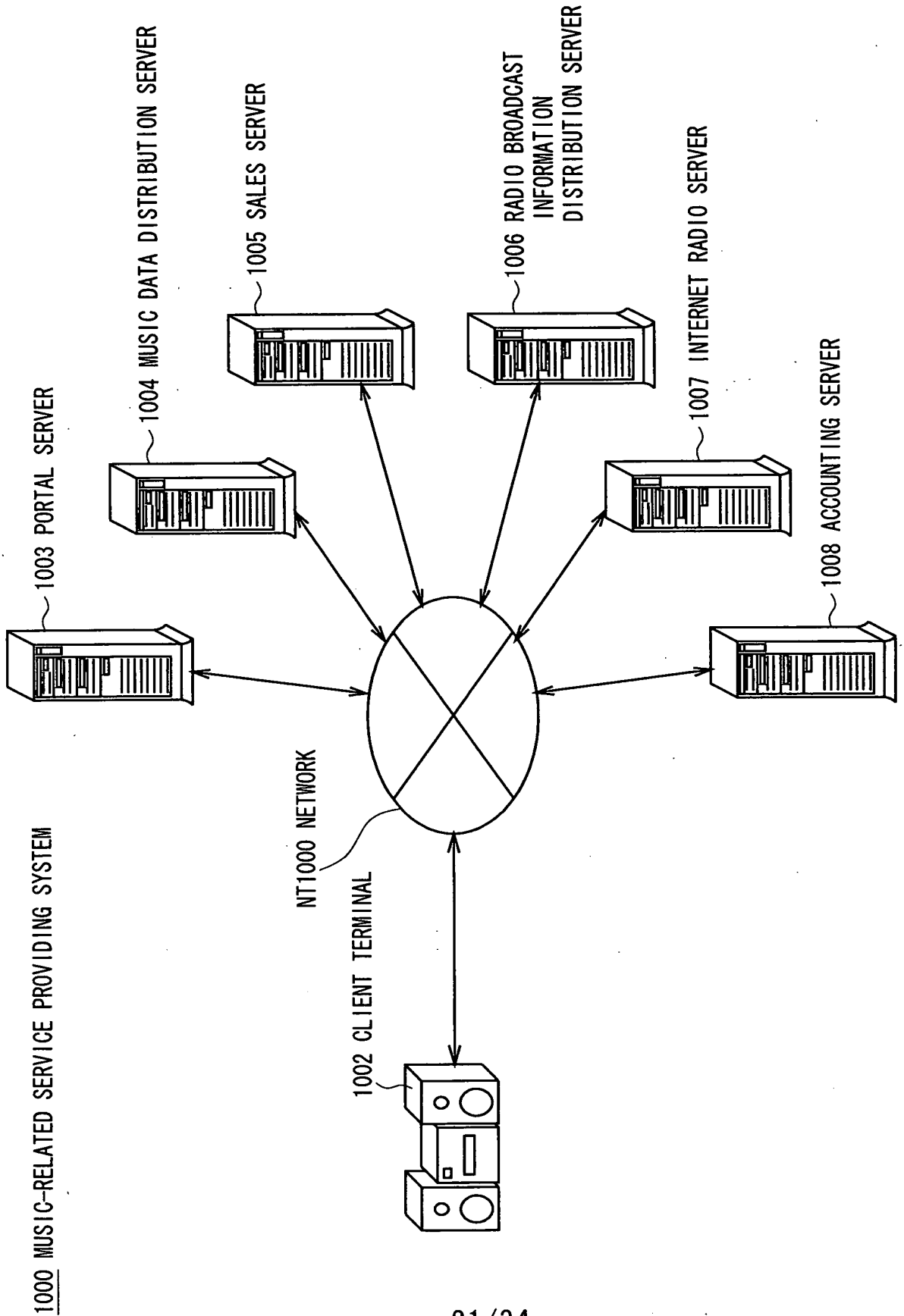
1000 MUSIC-RELATED SERVICE PROVIDING SYSTEM
1002 CLIENT TERMINAL
NT1000 NETWORK
1003 PORTAL SERVER
1004 MUSIC DATA DISTRIBUTION SERVER
1005 SALES SERVER
1006 RADIO BROADCAST INFORMATION DISTRIBUTION SERVER
1007 INTERNET RADIO SERVER
1008 ACCOUNTING SERVER

FIG. 23

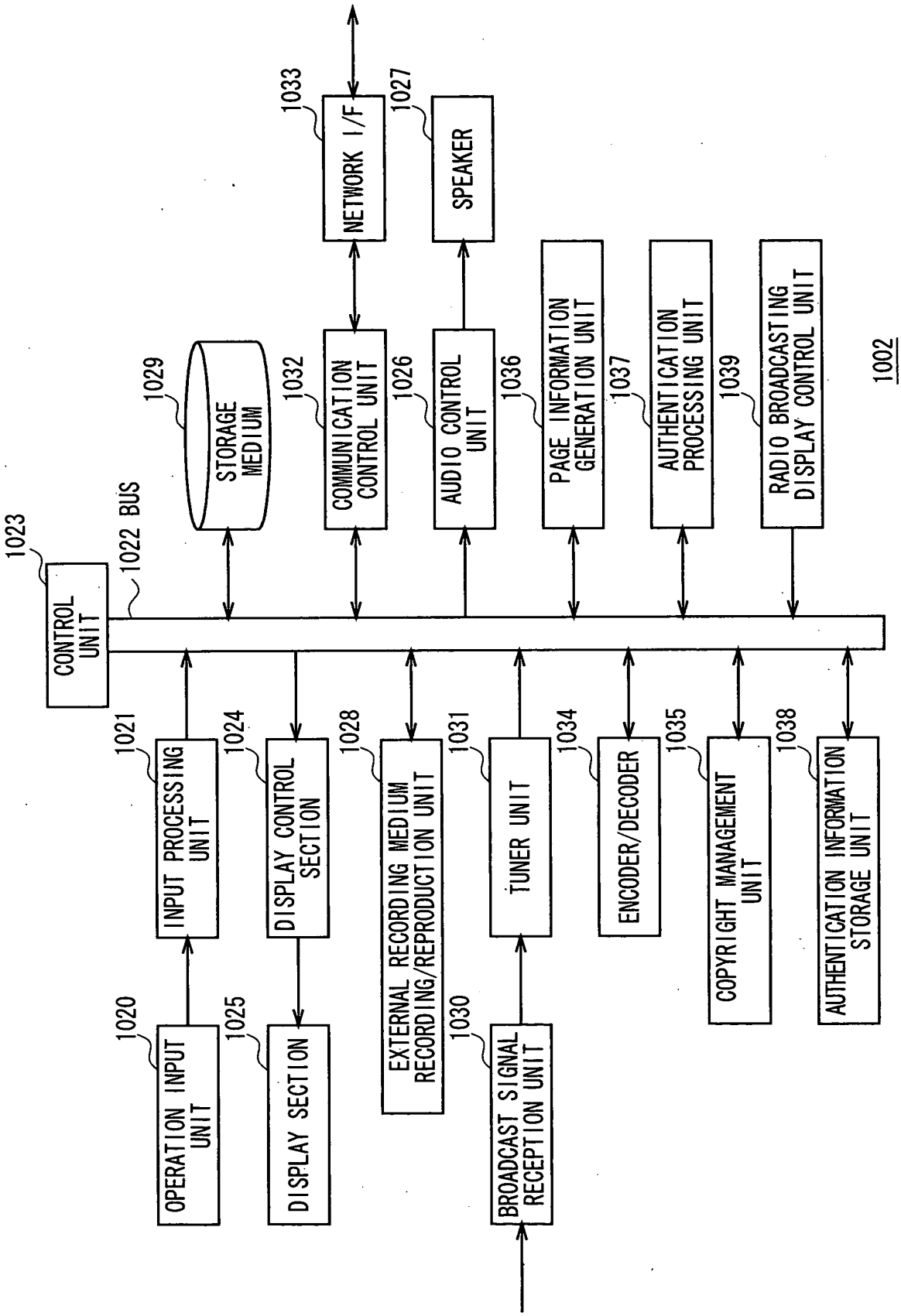
1002
1020 OPERATION INPUT UNIT
1021 INPUT PROCESSING UNIT
1022 BUS
1023 CONTROL UNIT
1024 DISPLAY CONTROL SECTION
1025 DISPLAY SECTION
1026 AUDIO CONTROL UNIT
1027 SPEAKER
1028 EXTERNAL RECORDING MEDIUM RECORDING/REPRODUCTION UNIT
1029 STORAGE MEDIUM
1030 BROADCAST SIGNAL RECEPTION UNIT
1031 TUNER UNIT
1032 COMMUNICATION CONTROL UNIT
1033 NETWORK I/F
1034 ENCODER/DECODER
1035 COPYRIGHT MANAGEMENT UNIT
1036 PAGE INFORMATION GENERATION UNIT
1037 AUTHENTICATION PROCESSING UNIT
1038 AUTHENTICATION INFORMATION STORAGE UNIT
1039 RADIO BROADCASTING DISPLAY CONTROL UNIT

FIG. 24

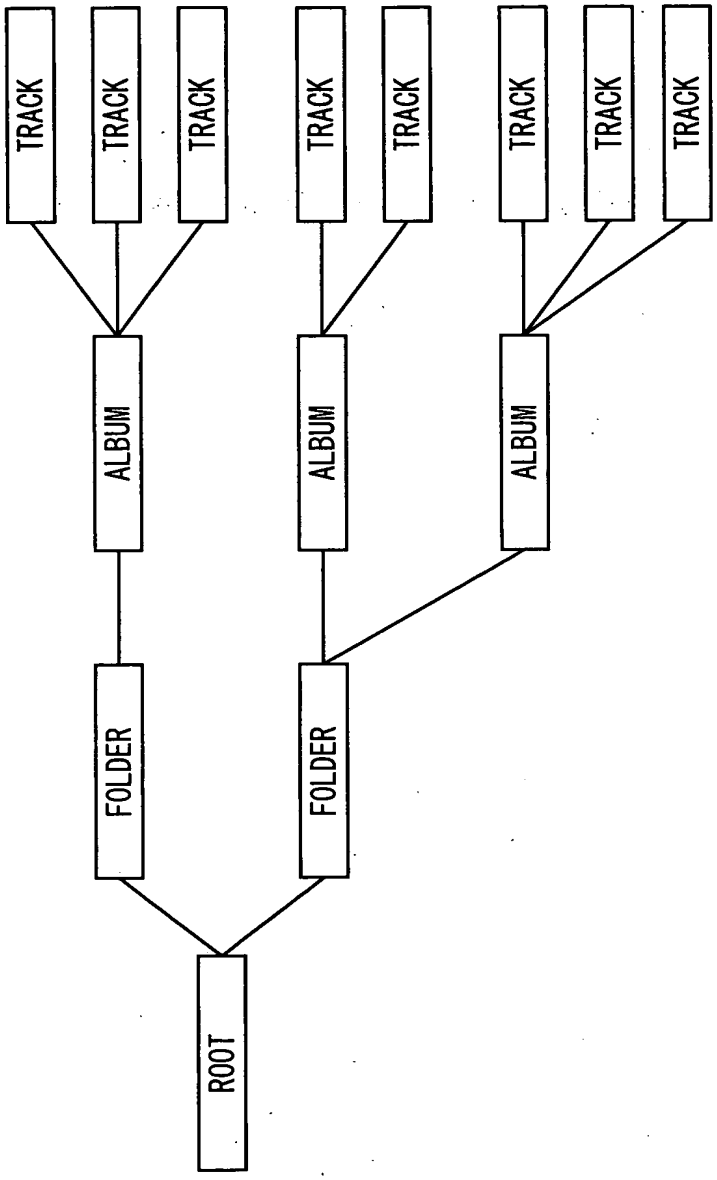
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
ALBUM
ALBUM
ALBUM
FOLDER
FOLDER
ROOT

FIG. 25

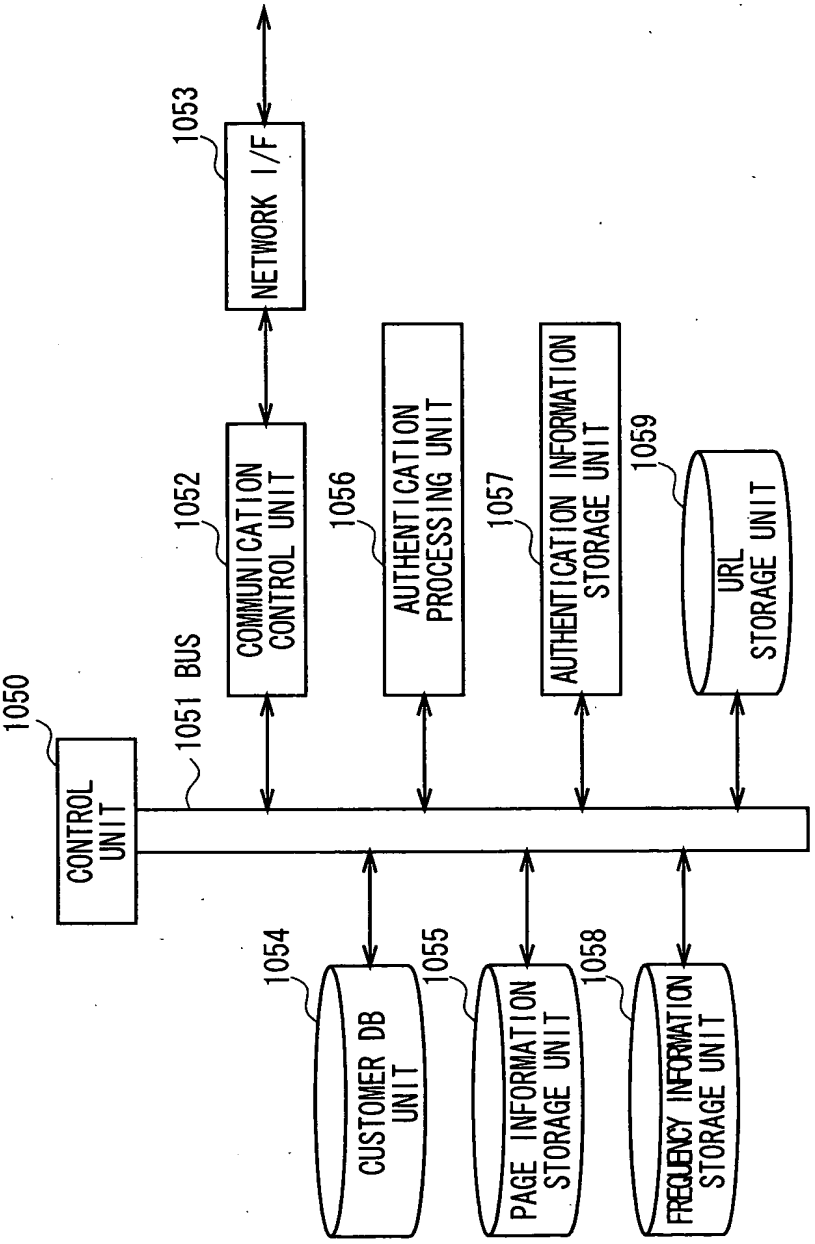
1003
1050
CONTROL UNIT
1051 BUS
1052
COMMUNICATION CONTROL UNIT
1053
NETWORK I/F
1054
CUSTOMER DB UNIT
1055
PAGE INFORMATION STORAGE UNIT
1056
AUTHENTICATION PROCESSING UNIT
1057
AUTHENTICATION INFORMATION STORAGE UNIT
1058
FREQUENCY INFORMATION STORAGE UNIT
1059
URL STORAGE UNIT

FIG. 26

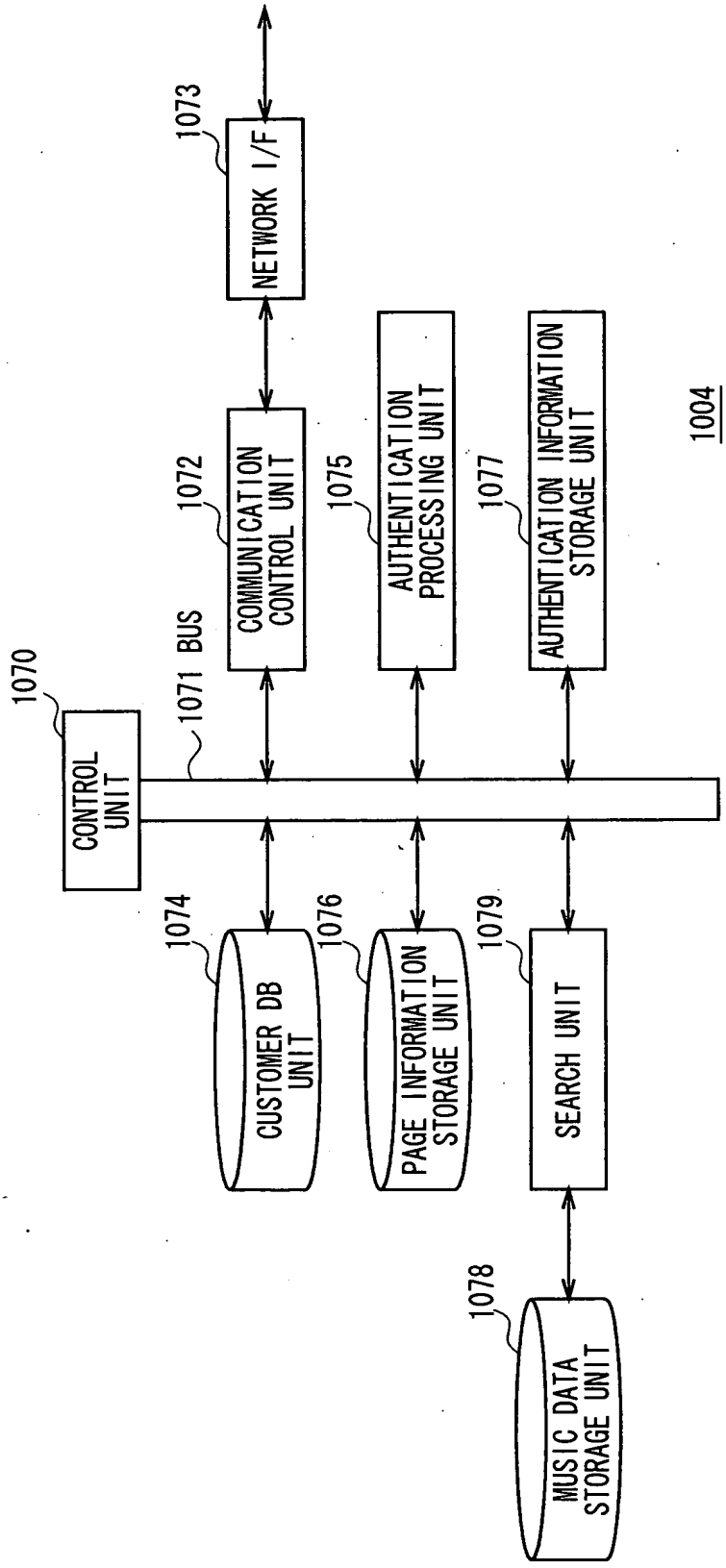
1004
1070
CONTROL UNIT
1071 BUS
1072
COMMUNICATION CONTROL UNIT
1073
NETWORK I/F
1074
CUSTOMER DB UNIT
1075
AUTHENTICATION PROCESSING UNIT
1076
PAGE INFORMATION STORAGE UNIT
1077
AUTHENTICATION INFORMATION STORAGE UNIT
1078
MUSIC DATA STORAGE UNIT
1079
SEARCH UNIT

FIG. 27

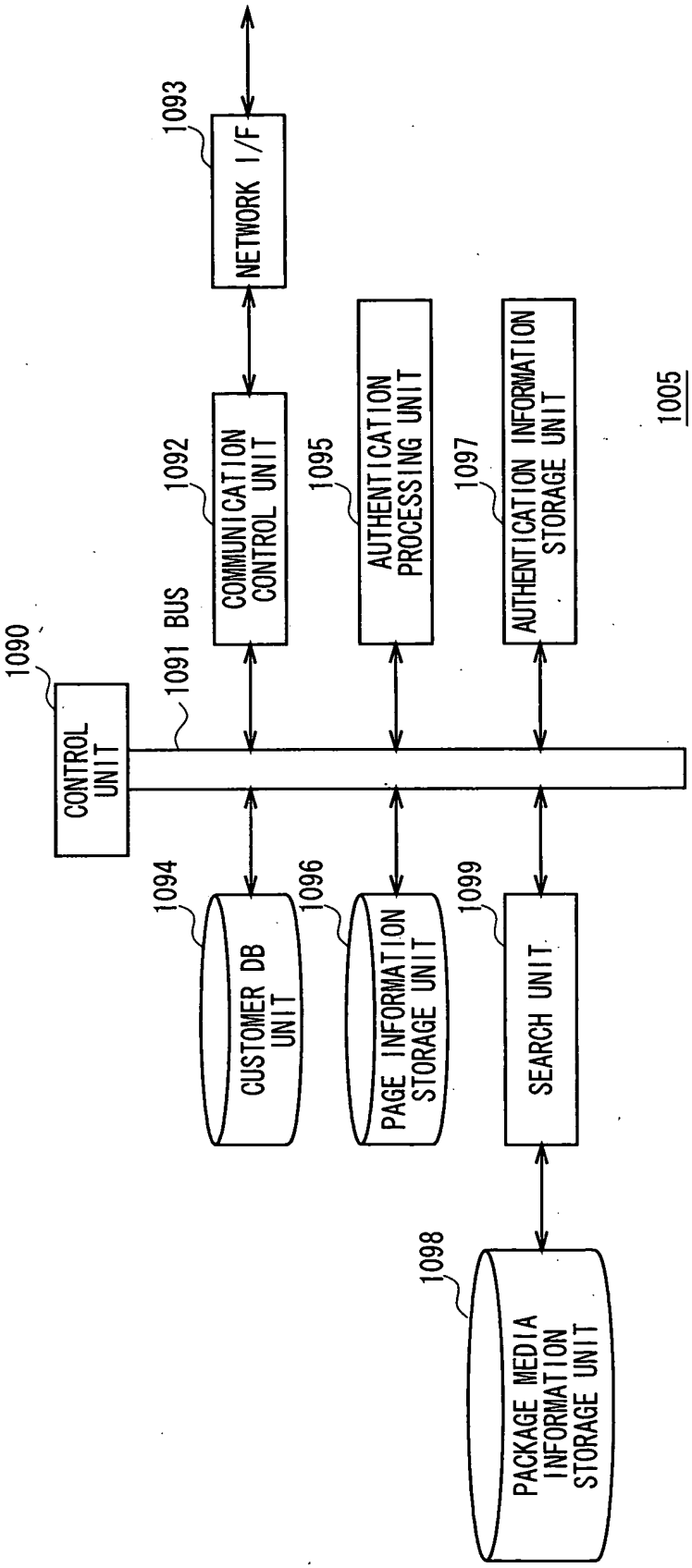
1005
1090
CONTROL UNIT
1091 BUS
1092
COMMUNICATION CONTROL UNIT
1093
NETWORK I/F
1094
CUSTOMER DB UNIT
1095
AUTHENTICATION PROCESSING UNIT
1096
PAGE INFORMATION STORAGE UNIT
1097
AUTHENTICATION INFORMATION STORAGE UNIT
1098
PACKAGE MEDIA INFORMATION STORAGE UNIT
1099
SEARCH UNIT

FIG. 28

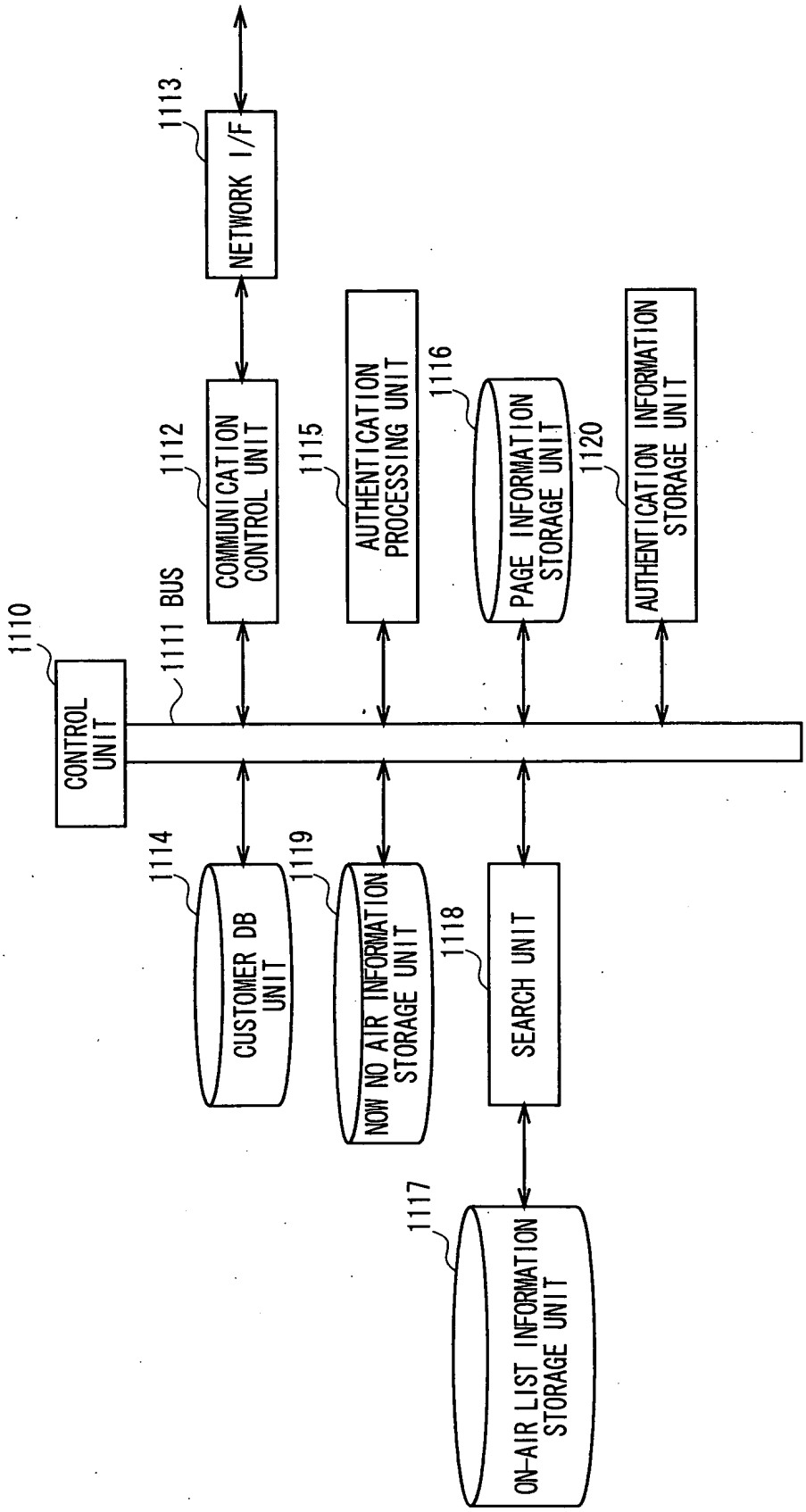
1006
1110
CONTROL UNIT
1111 BUS
1112
COMMUNICATION CONTROL UNIT
1113
NETWORK I/F
1114
CUSTOMER DB UNIT
1115
AUTHENTICATION PROCESSING UNIT
1116
PAGE INFORMATION STORAGE UNIT
1117
ON-AIR LIST INFORMATION STORAGE UNIT
1118
SEARCH UNIT
1119
NOW NO AIR INFORMATION STORAGE UNIT
1120
AUTHENTICATION INFORMATION STORAGE UNIT

FIG. 29

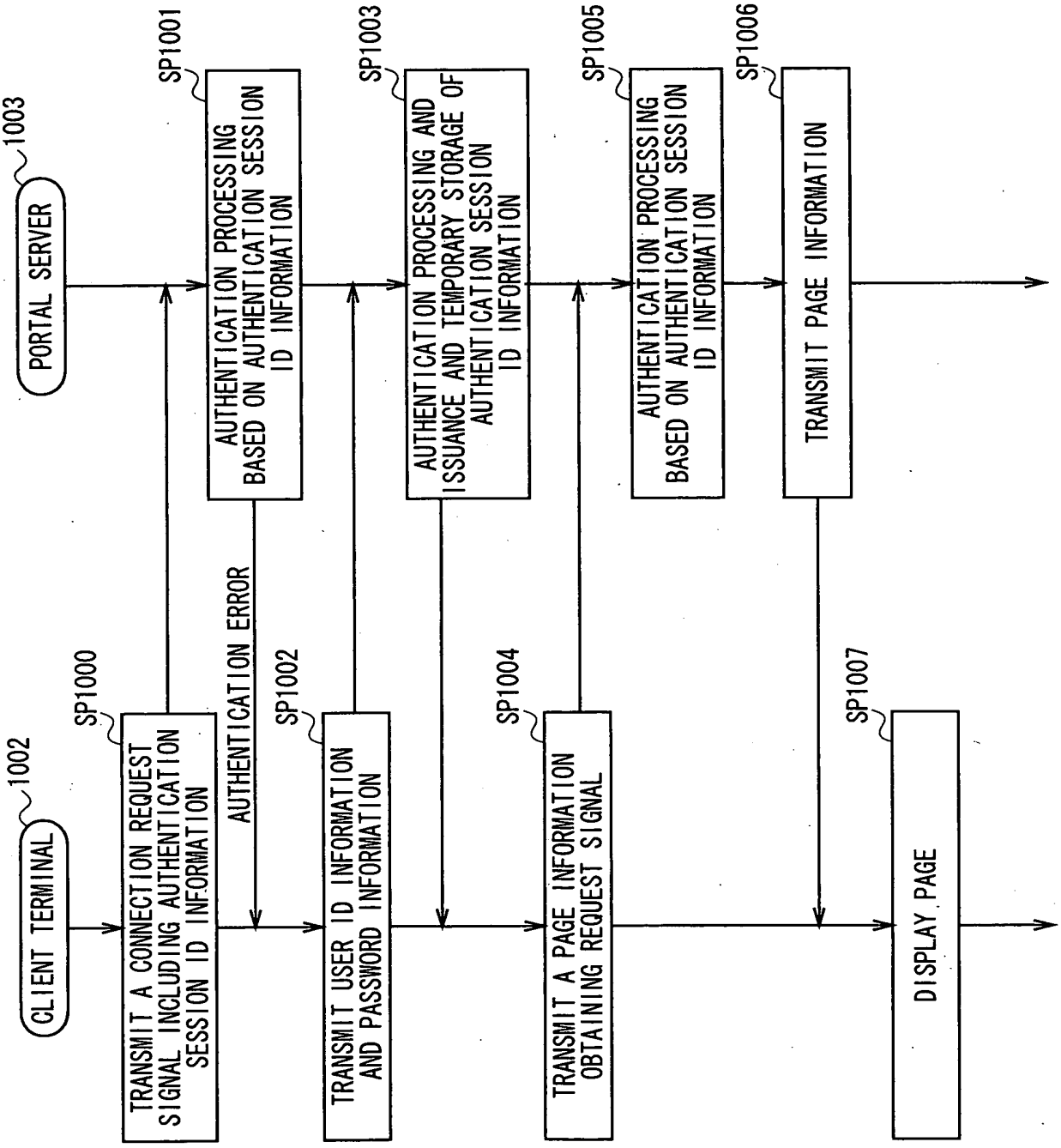
CLIENT TERMINAL
1002
PORTAL SERVER
1003
SP1000
TRANSMIT A CONNECTION REQUEST SIGNAL INCLUDING AUTHENTICATION SESSION ID INFORMATION
SP1001
AUTHENTICATION PROCESSING BASED ON AUTHENTICATION SESSION ID INFORMATION
AUTHENTICATION ERROR
SP1002
TRANSMIT USER ID INFORMATION AND PASSWORD INFORMATION
SP1003
AUTHENTICATION PROCESSING AND ISSUANCE AND TEMPORARY STORAGE OF AUTHENTICATION SESSION ID INFORMATION
SP1004
TRANSMIT A PAGE INFORMATION OBTAINING REQUEST SIGNAL
SP1005
AUTHENTICATION PROCESSING BASED ON AUTHENTICATION SESSION ID INFORMATION
SP1006
TRANSMIT PAGE INFORMATION
SP1007
DISPLAY PAGE

FIG. 30

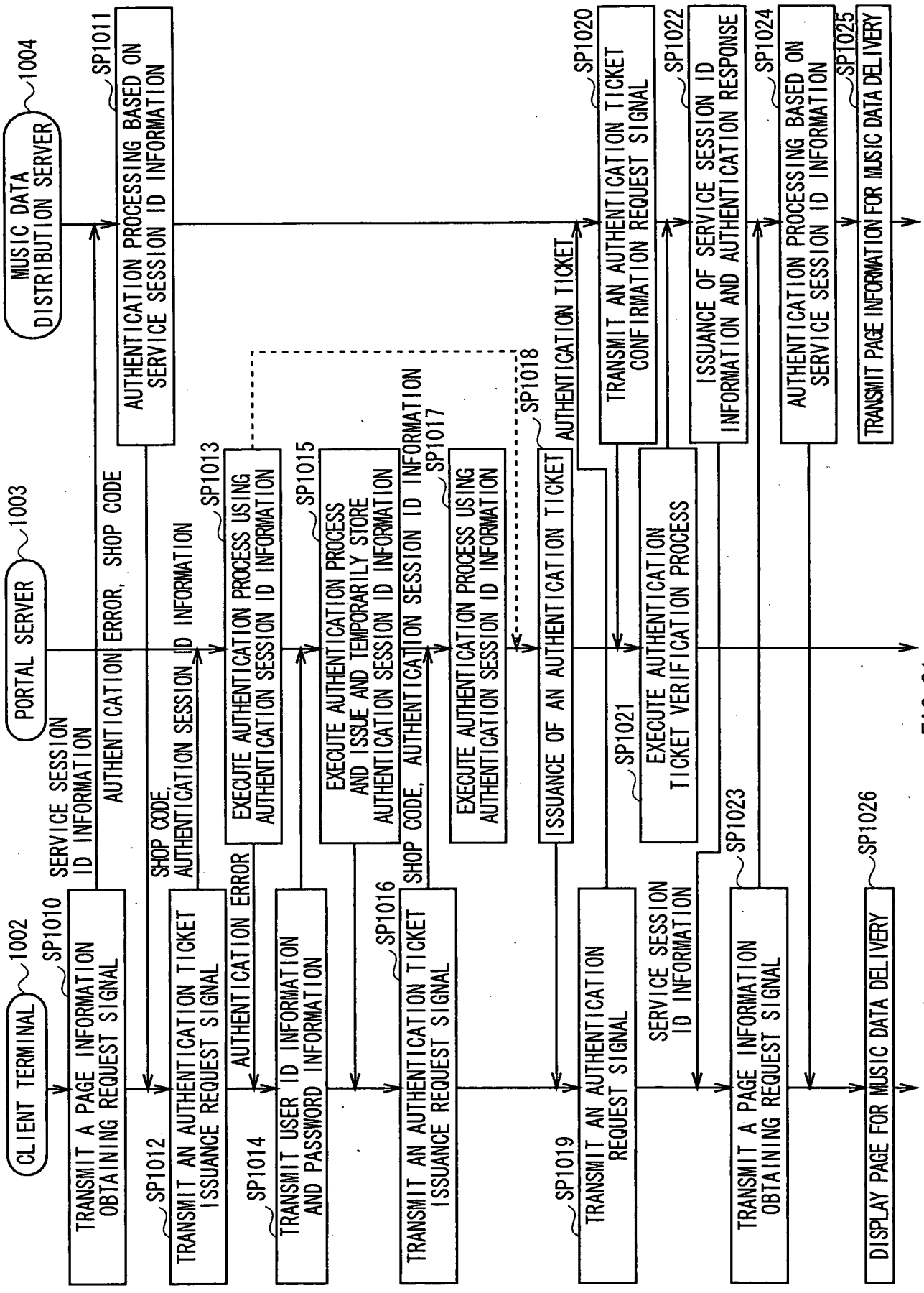
CLIENT TERMINAL
1002
PORTAL SERVER
1003
MUSIC DATA DISTRIBUTION SERVER
1004
SP1010
TRANSMIT A PAGE INFORMATION OBTAINING REQUEST SIGNAL
SERVICE SESSION ID INFORMATION
AUTHENTICATION ERROR, SHOP CODE
SP1011
AUTHENTICATION PROCESSING BASED ON SERVICE SESSION ID INFORMATION
SP1012
TRANSMIT AN AUTHENTICATION TICKET ISSUANCE REQUEST SIGNAL
SHOP CODE, AUTHENTICATION SESSION ID INFORMATION
SP1013
EXECUTE AUTHENTICATION PROCESS USING AUTHENTICATION SESSION ID INFORMATION
AUTHENTICATION ERROR
SP1014
TRANSMIT USER ID INFORMATION AND PASSWORD INFORMATION
SP1015
EXECUTE AUTHENTICATION PROCESS AND ISSUE AND TEMPORARILY STORE AUTHENTICATION SESSION ID INFORMATION
SP1016
TRANSMIT AN AUTHENTICATION TICKET ISSUANCE REQUEST SIGNAL
SHOP CODE, AUTHENTICATION SESSION ID INFORMATION
SP1017
EXECUTE AUTHENTICATION PROCESS USING AUTHENTICATION SESSION ID INFORMATION
SP1018
ISSUANCE OF AN AUTHENTICATION TICKET
AUTHENTICATION TICKET
SP1019
TRANSMIT AN AUTHENTICATION REQUEST SIGNAL
SP1020
TRANSMIT AN AUTHENTICATION TICKET CONFIRMATION REQUEST SIGNAL
SP1021
EXECUTE AUTHENTICATION TICKET VERIFICATION PROCESS
SP1022
ISSUANCE OF SERVICE SESSION ID INFORMATION AND AUTHENTICATION RESPONSE
SERVICE SESSION ID INFORMATION
SP1023
TRANSMIT A PAGE INFORMATION OBTAINING REQUEST SIGNAL
SP1024
AUTHENTICATION PROCESSING BASED ON SERVICE SESSION ID INFORMATION
SP1025
TRANSMIT PAGE INFORMATION FOR MUSIC DATA DELIVERY
SP1026
DISPLAY PAGE FOR MUSIC DATA DELIVERY

FIG. 31

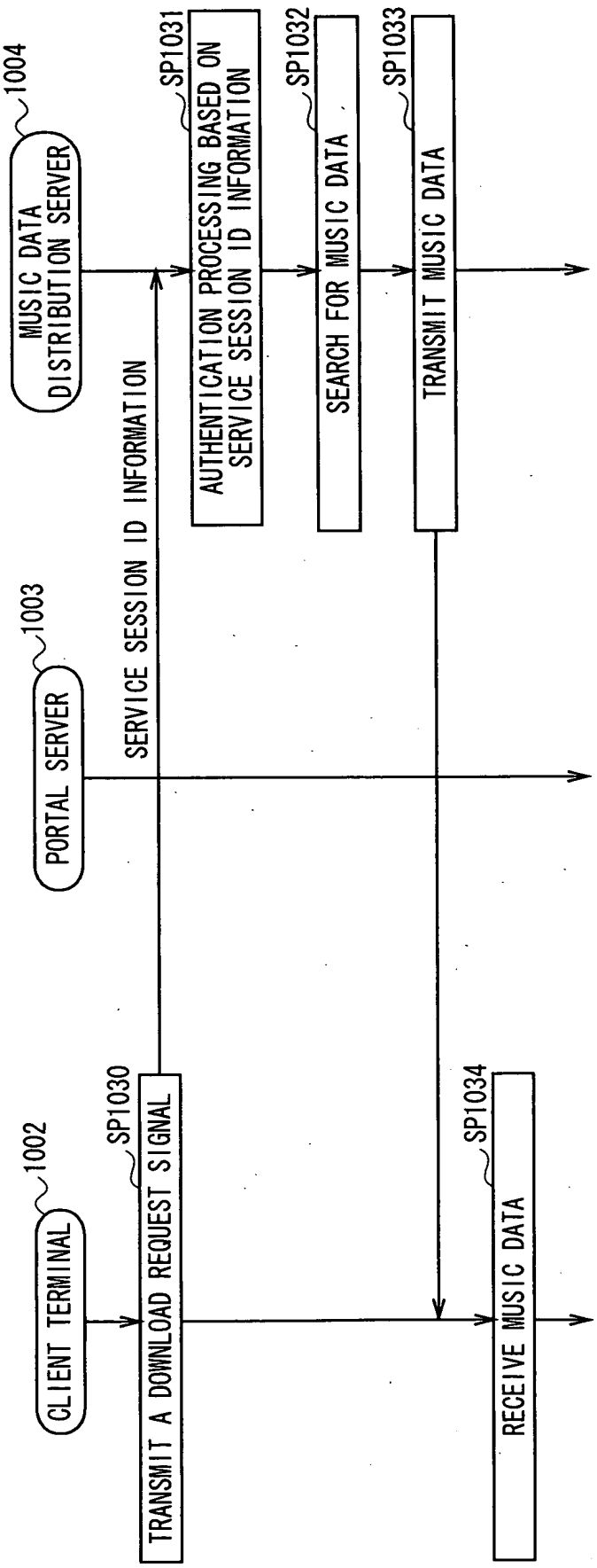
1004
MUSIC DATA DISTRIBUTION SERVER
SP1031
AUTHENTICATION PROCESSING BASED ON SERVICE SESSION ID INFORMATION
SP1032
SEARCH FOR MUSIC DATA
SP1033
TRANSMIT MUSIC DATA
1003
PORTAL SERVER
SERVICE SESSION ID INFORMATION
1002
CLIENT TERMINAL
SP1030
TRANSMIT A DOWNLOAD REQUEST SIGNAL
SP1034
RECEIVE MUSIC DATA

FIG. 32

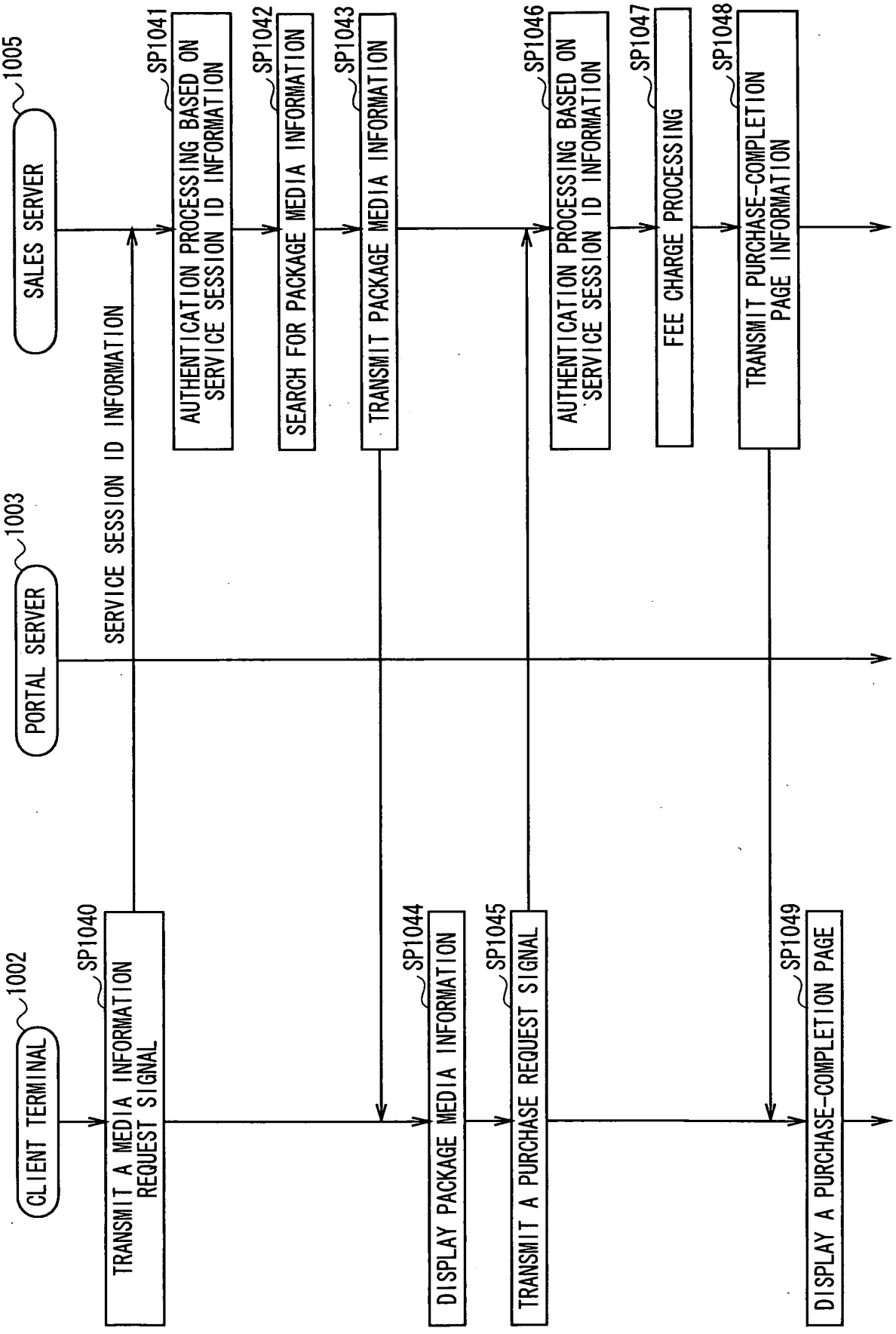
CLIENT TERMINAL
1002
PORTAL SERVER
1003
SALES SERVER
1005
SERVICE SESSION ID INFORMATION
SP1040
TRANSMIT A MEDIA INFORMATION REQUEST SIGNAL
SP1041
AUTHENTICATION PROCESSING BASED ON SERVICE SESSION ID INFORMATION
SP1042
SEARCH FOR PACKAGE MEDIA INFORMATION
SP1043
TRANSMIT PACKAGE MEDIA INFORMATION
SP1044
DISPLAY PACKAGE MEDIA INFORMATION
SP1045
TRANSMIT A PURCHASE REQUEST SIGNAL
SP1046
AUTHENTICATION PROCESSING BASED ON SERVICE SESSION ID INFORMATION
SP1047
FEE CHARGE PROCESSING
SP1048
TRANSMIT PURCHASE-COMPLETION PAGE INFORMATION
SP1049
DISPLAY A PURCHASE-COMPLETION PAGE

FIG. 33

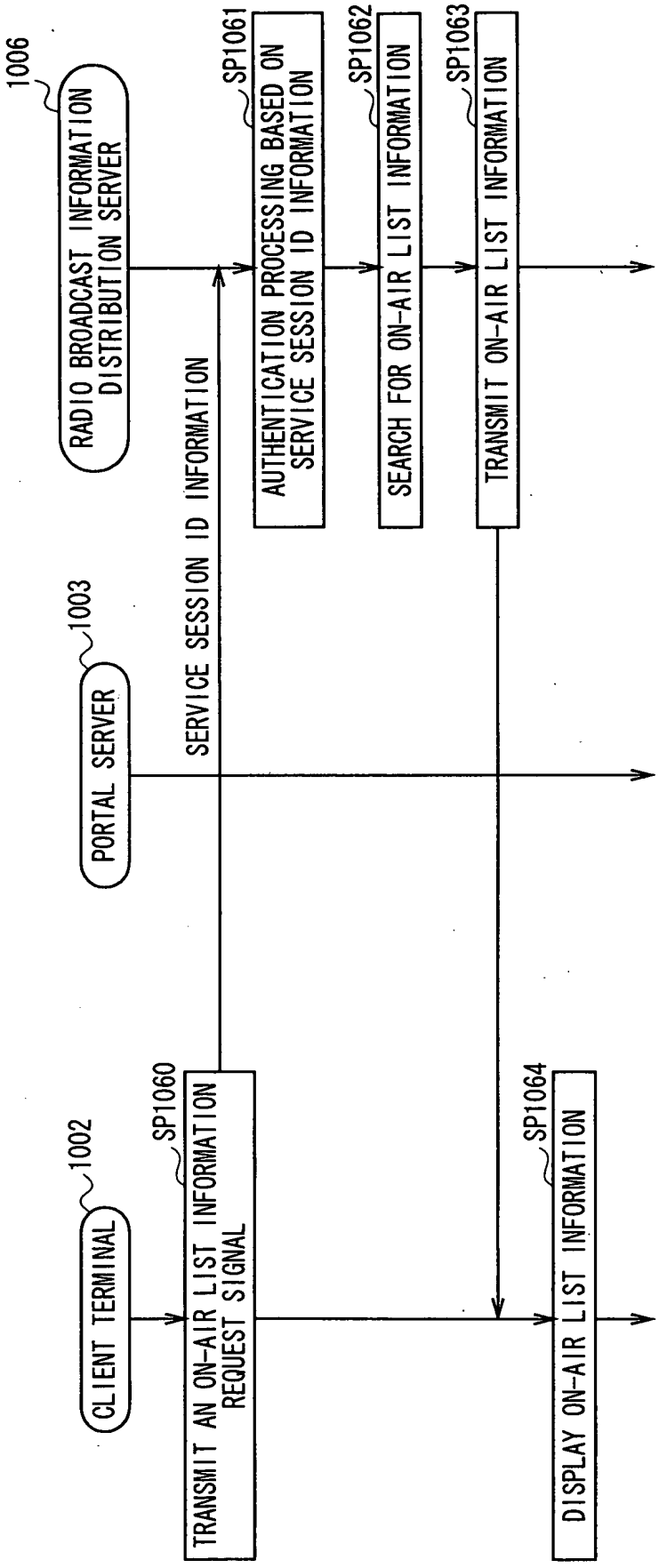
1006
RADIO BROADCAST INFORMATION DISTRIBUTION SERVER
SP1061
AUTHENTICATION PROCESSING BASED ON SERVICE SESSION ID INFORMATION
SP1062
SEARCH FOR ON-AIR LIST INFORMATION
SP1063
TRANSMIT ON-AIR LIST INFORMATION
1003
PORTAL SERVER
SERVICE SESSION ID INFORMATION
1002
CLIENT TERMINAL
SP1060
TRANSMIT AN ON-AIR LIST INFORMATION REQUEST SIGNAL
SP1064
DISPLAY ON-AIR LIST INFORMATION

FIG. 34

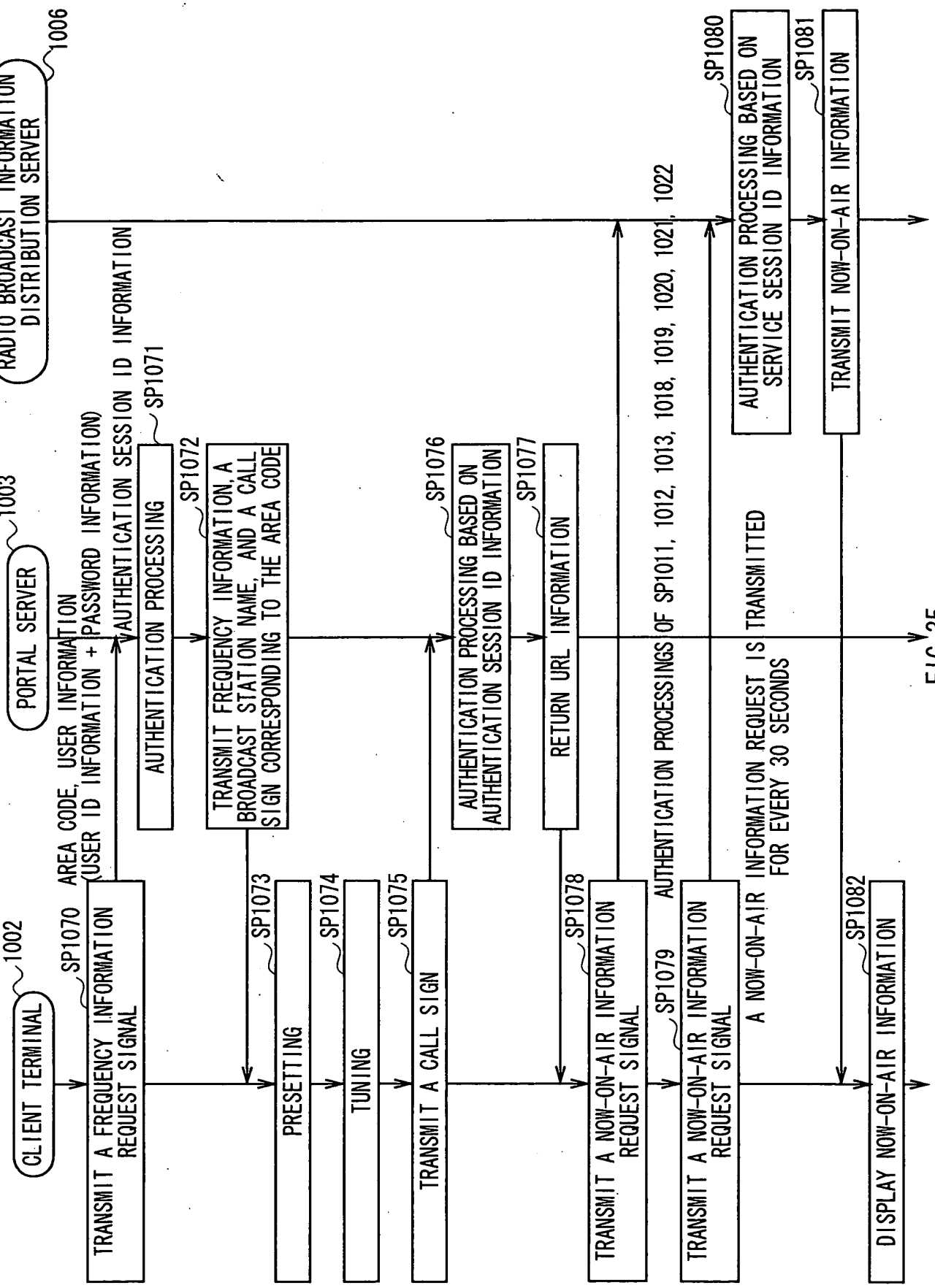
CLIENT TERMINAL
1002
PORTAL SERVER
1003
RADIO BROADCAST INFORMATION DISTRIBUTION SERVER
1006
SP1070
TRANSMIT A FREQUENCY INFORMATION REQUEST SIGNAL
AREA CODE, USER INFORMATION
(USER ID INFORMATION + PASSWORD INFORMATION)
AUTHENTICATION SESSION ID INFORMATION
SP1071
AUTHENTICATION PROCESSING
SP1072
TRANSMIT FREQUENCY INFORMATION, A BROADCAST STATION NAME, AND A CALL SIGN CORRESPONDING TO THE AREA CODE
SP1073
PRESETTING
SP1074
TUNING
SP1075
TRANSMIT A CALL SIGN
SP1076
AUTHENTICATION PROCESSING BASED ON AUTHENTICATION SESSION ID INFORMATION
SP1077
RETURN URL INFORMATION
SP1078
TRANSMIT A NOW-ON-AIR INFORMATION REQUEST SIGNAL
SP1079
AUTHENTICATION PROCESSINGS OF SP1011, 1012, 1013, 1018, 1019, 1020, 1021, 1022
TRANSMIT A NOW-ON-AIR INFORMATION REQUEST SIGNAL
A NOW-ON-AIR INFORMATION REQUEST IS TRANSMITTED FOR EVERY 30 SECONDS
SP1080
AUTHENTICATION PROCESSING BASED ON SERVICE SESSION ID INFORMATION
SP1081
TRANSMIT NOW-ON-AIR INFORMATION
SP1082
DISPLAY NOW-ON-AIR INFORMATION

FIG. 35

DESCRIPTION OF SYMBOLS

1... COMMUNICATION DEVICE, 1A... TRANSMISSION MEANS, 1B... RECEPTION MEANS, 1C... STORAGE MEANS, 1D... DISPLAY MEANS, 2... SERVER, 2A... STORAGE MEANS, 2B... RECEPTION MEANS, 2C... TRANSMISSION MEANS, 2D... CONTENT DATABASE, 2E... MANAGEMENT MEANS, 3... REQUEST INFORMATION, 4A... RELATED INFORMATION, 4B... IDENTIFICATION CODE, 5A... PURCHASE REQUEST INFORMATION, 5B... IDENTIFICATION CODE, 5C... USER IDENTIFICATION INFORMATION, 6A... CONTENT DATA, 6B... ADDITIONAL DATA, 1X, 2X... INFORMATION PROCESSING DEVICE, 1AX, 2CX... TRANSMISSION MEANS, 1BX, 2BX... RECEPTION MEANS, 1CX, 2AX... STORAGE MEANS, 1DX... DISPLAY MEANS, 3X... RELATED INFORMATION, 4X... REQUEST INFORMATION, 5X... FIRST IDENTIFICATION CODE, 6X... PURCHASE REQUEST INFORMATION, 7X... CONTENT DATA, 8X... SECOND IDENTIFICATION CODE, 1000... MUSIC-RELATED SERVICE PROVIDING SYSTEM, 1002... CLIENT TERMINAL, 1003... PORTAL SERVER, 1004... MUSIC DATA DISTRIBUTION SERVER, 1005... SALES SERVER, 1006... RADIO BROADCAST INFORMATION DISTRIBUTION SERVER, 1007... INTERNET RADIO SERVER, 1008... ACCOUNTING SERVER